Manitoba
Sustainable Development Innovations Fund

Fonds des innovations de
développement durable Manitoba

Annual Report 2007-2008

Rapport annuel 2007-2008

Manitoba

MINISTER OF CONSERVATION

Legislative Building
Winnipeg, Manitoba, CANADA
R3C 0V8

The Honourable John Harvard, P.C., O.M.
Lieutenant Governor of Manitoba
Room 235 Legislative Building
Winnipeg MB R3C 0V8

Your Honour:

I am pleased to present you with the Annual Report of the Manitoba Sustainable Development Innovations Fund for the period of April 1, 2007 to March 31, 2008.

Respectfully submitted,

Stan Struthers
Minister of Conservation

Manitoba

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The Honourable Stan Struthers
Minister of Conservation
Room 330, Legislative Building
Winnipeg MB R3C 0V8

Dear Sir:

It is my pleasure to present the Annual Report of the Sustainable Development Innovations Fund (SDIF) for the 2007-2008 fiscal year.

Mandated under *The Sustainable Development Act,* the Fund's purpose is to contribute to Manitoba's environmental sustainability, while considering the economy, human health and social well-being. The Fund achieves its purpose through targeted funding initiatives and programs, implemented through an application or proposal process.

During 2007-2008, the SDIF awarded approximately $3.4 million to community organizations, businesses, educational institutions, youth groups, government agencies, and others for innovative projects. Supported initiatives included research and demonstration projects, educational activities, and hands-on community development activities.

The Fund continues to experience a high demand for grant funding and Manitobans continue to benefit from the initiatives supported by the Fund.

Respectfully submitted,

Laurie Streich
Director

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PREFACE

Organization of Report

The format of the 2007/2008 Sustainable Development Innovations Fund (SDIF) Annual Report is similar to previous Annual Reports in that funded projects are presented by category and program areas.

Projects are listed under the following categories:

SDIF Open Category:
- SDIF Open Category Priority Areas
- Special Initiatives
  - Manitoba Green Buildings Policy Coordination Unit
  - Tire Stewardship Manitoba

Broad Allocations Category:
Targeted Funding Initiatives are as follows:
- Environmental Youth Corps
- Manitoba Climate Change Action Fund
- Waste Reduction and Pollution Prevention Fund
- Water Stewardship Fund

Departmental and Government Strategic Priorities are as follows:
- Bear Smart Initiative
- Manitoba Forestry Association Woodlot Program

Purpose

In 1989, the provincial government created the Environmental Innovations Fund under *The Environment Act*., The Environmental Innovations Fund was repealed from *The Environment Act* in fiscal year 1992/1993 and a new Fund, the Sustainable Development Innovations Fund was enacted under Section 17(1) of *The Sustainable Development Act*, which came into force on July 1, 1998 to support and promote sustainable development initiatives throughout the Province of Manitoba. In fiscal year 2000/2001, new funding categories were established under the Fund.

As stated in *The Sustainable Development Act*, the purpose of the Fund, is to 'provide grants in support of innovative projects, activities, research and developments that further the sustainability of Manitoba's economy, environment, human health and social well-being and support environmentally sustainable economic growth; and support any other sustainable development innovation purpose that the Lieutenant Governor in Council considers necessary or advisable'.

The goal of the SDIF is to contribute to Manitoba's environmental sustainability. This approach indirectly takes into account the economy, human health and social well-being. The SDIF achieves its purpose through targeted funding initiatives and programs, implemented through an application or proposal process. The SDIF has two fund categories: an Open Fund Category and a Broad Allocations Category. Both categories and their designated programs align with Manitoba Conservation priorities, as well as other government initiatives. The SDIF supports Manitoba based projects or projects that will be of benefit to Manitoba and contribute to meeting the objectives of the SDIF:

1. To support and promote innovation in the environmental and sustainable development industries.
2. To encourage environmentally sound decisions and actions.
3. To promote research and demonstration of new initiatives not addressed by existing programs.
4. To stimulate economic development and diversification that will improve the quality of life and strengthen community identity throughout Manitoba.
5. To demonstrate new approaches to prevent waste and pollution and to conserve resources.
6. To support activities that may benefit both the global and local environment.

The two fund categories, SDIF Open Category and Broad Allocations Category, contribute towards the protection, enhancement, conservation, or rehabilitation of Manitoba's environment. Funding support is provided for the development, implementation and promotion of innovative environmentally sustainable projects delivered by local government and provincial government departments, business and industry, community and youth groups, Aboriginal organizations, First Nation communities and educational institutions.

As well as supporting special initiatives, the Open Category has established the following priority areas:

- environmental innovation and demonstration;
- ecosystem conservation;
- sustainable community development;
- northern community development and environmental issues;
- sustainable agricultural practices; and
- eco-tourism.

The Broad Allocations Category supports targeted funding initiatives and government strategic priorities, including:

- youth participation,
- waste reduction and prevention,
- climate change,
- water quality and conservation, and
- natural resource conservation.

Source of Revenue

The amount appropriated to the SDIF through the annual Estimates process is notionally linked to the anticipated revenues derived from Environmental Protection Taxes (EPT) on alcohol beverage containers and disposable diapers, from the Provincial Sales Tax (PST) on the Environmental Handling Charges (EHC) imposed by the Lubricating Products Industry, and from the Retail Sales Tax (RST) collected on levies applied to the sale of non-deposit beverage containers and tires.

Communication

The Fund is promoted through the following activities:

- Manitoba Government websites, including Manitoba Conservation; Manitoba Science, Technology, Energy and Mines, and Manitoba Water Stewardship
- Community events, trade shows, exhibitions, and speaking engagements
- Ministerial news releases
- Acknowledgement in publications, printed material, and signage of funded projects
- Listings in various funding directories
- Provincial government offices and staff
- Word of mouth.

Process and Fund Management

The Pollution Prevention Branch of Manitoba Conservation is designated as the administrating branch for the Fund under *The Sustainable Development Act* and provides overall administrative support to the Fund, including the Open Category and Broad Allocations Category. This includes responding to inquiries, preparing documentation and reports, tracking expenditures, preparing cash flows, and reporting to Treasury Board.

The Branch also manages the SDIF Open Fund Category and two of the targeted funding initiatives under the Broad Allocations Category – Environmental Youth Corps (EYC) and Waste Reduction and Pollution Prevention (WRAPP) Fund.

The Manitoba Climate Change Action Fund (MCCAF) is managed by Manitoba Energy, Science and Technology, and the Water Stewardship Fund, which includes the Zebra Mussel Program, is managed by

Manitoba Water Stewardship. The remaining allocations under the Broad Allocations Category are managed by other Manitoba Conservation branches.

The SDIF Open Category and Broad Allocation Categories, including the Environmental Youth Corps (EYC), Manitoba Climate Change Action Fund (MCCAF), Waste Reduction and Pollution Prevention (WRAPP) Fund, and Water Stewardship Fund use a similar application or proposal process.

Applications or proposals submitted for funding consideration are evaluated by provincial staff against the funding program's criteria. The evaluations are compiled and summarized and then submitted for review to an Advisory Committee, comprised of representatives from provincial government departments.

The Advisory Committee reviews the proposals and the evaluations and makes funding recommendations to the Minister of Conservation or delegated Minister. The Minister has delegated approval authority for projects receiving funding of up to and including $25,000. Projects to be awarded funding in excess of $25,000 are subject to Treasury Board approval.

Projects requesting support under the SDIF Open Category are assessed against the following criteria:

- addresses one or more of the priority areas;
- demonstrates measurable progress towards achieving one or more of the Fund's objectives;
- promotes a sustainable approach, has clear environmental benefits, and takes into account benefits to the community and the economy;
- involves youth;
- has written support and has identified other financial or in-kind project support;
- has a realistic budget and uses appropriate resources to conduct the project;
- has a distinct start and finish, and will be implemented in a timely fashion;
- will be conducted in Manitoba or benefit Manitoba;
- has a clear, concrete plan for future use, sharing, or replication.

Ineligible applications and funding requests under the SDIF Open Category include:

- projects that will result in proprietary knowledge that will be held exclusively by the grant recipient;
- applications for debt financing or cost recovery purposes;
- purchase of playground and recreational equipment;
- purchase of real property, including land, buildings or vehicles;
- ongoing administration and established operational budgets; and
- initiatives that must be undertaken as a result of a government order, such as removal of petroleum distribution systems, investigations, and remediation.

Manitobans are major beneficiaries of the Fund with the intended direct impact of the funded projects being on the natural environment. By supporting environmentally sound and sustainable practices, the Fund assists with facilitating behavioral changes of individuals, households, businesses and institutions.

During 2007/2008, a total allocation of $3.4 million was authorized to support the SDIF for the following categories:

SDIF Open Category

Broad Allocations Category

1. Targeted Funding Initiatives
   - Environmental Youth Corps (EYC)
   - Manitoba Climate Change Action Fund (MCCAF)
   - Waste Reduction and Pollution Prevention (WRAPP) Fund
   - Water Stewardship Fund

2. Departmental and Government Strategic Priorities
   - Bear Smart Initiative
   - Manitoba Forestry Association Woodlot Program

In total, approximately $3.3 million was expended against a total budget of $3.4 million. Seventy-five new projects and two special initiatives were allocated funding from the SDIF Open Category in 2007/2008, expending approximately $1.6 million. New projects funded under the SDIF Open Category included ventures focusing on Aboriginal interests, youth programming, habitat protection, and scientific research and analysis. The six targeted broad allocations expended approximately $1.7 million.

A summary of project expenditures under the Fund's Open Category and Broad Allocations Category is presented on the following pages.

SDIF OPEN CATEGORY SUMMARY — PRIORITY PROGRAM AREAS

Eco-tourism

A total of $50,840.00 was expended in 2007/2008 for three projects under the eco-tourism category. The projects approved that address ecosystem preservation, public education and economic opportunities through tourism with a priority on rural and northern communities.

Ecosystem Conservation

A total of $152,507.19 was expended in 2007/2008 for nine projects under the ecosystem category. The objectives of this category are to conserve resources, preserve and maintain urban forests and ecosystems and rehabilitate and revitalize degraded areas.

Environmental Technology Innovation and Demonstration

A total of $136,000.00 was expended in 2007/2008 for six projects under the environmental technology innovation and demonstration category. Projects supported within this category include feasibility studies, research and development of new products and processes, environmental technology demonstrations, and special projects, such as strategic studies relating to industrial sectors.

Northern Community Development and Environmental Issues

A total of $12,000.00 was expended during the 2007/2008 fiscal year for two projects funded in the northern community development and environmental issues category. Projects under this category should reflect the enhancement of the environment and sustainable economic development activities of northern and remote communities, with a priority on Aboriginal communities.

Sustainable Agricultural Practices

A total of $240,678.76 was expended during the 2007/2008 fiscal year for 10 projects under the sustainable agricultural practices category. Projects supported within this category include research, demonstration, and feasibility studies on agricultural practices that protect the environment and assist in diversifying Manitoba's agricultural sector.

Sustainable Community Development

A total of $155,975.00 was expended during the 2007/2008 fiscal year for 10 projects under the sustainable community development category. Sustainable community practices include eco-efficiency initiatives, environmental stewardship, capacity building mechanisms, and encouragement of inner city revitalization, with an emphasis on partnerships with Aboriginal people and youth.

Understanding Our Environment

A total of $536,539.00 was expended during the 2007/2008 fiscal year for 35 projects under the understanding our environment category. Projects under this category help Manitobans make educated decisions and take action regarding the environment, through education and awareness activities, training, research, seminars and forums.

Special Initiatives:

Green Building Policy Coordination Unit

A total of $121,900.00 was expended during the 2007/2008 fiscal year to support the development of a provincial Green Building Policy. A Green Building Coordination Unit was established and held consultations with government and industry stakeholders to further develop and refine the Policy.

Tire Stewardship Manitoba

A total of $253,100.00 was expended during the 2007/2008 fiscal year to assist Tire Stewardship Manitoba (TSM) in the establishment of a new industry-led scrap tire management program in Manitoba to replace the former government-led program. The new program provides a financial incentive to collect and recycle Manitoba generated scrap tires, and is financed by Eco-Fees charged on all tires sold in the province.

BROAD ALLOCATIONS CATEGORY SUMMARY

Targeted Funding Initiatives

Environmental Youth Corps

A total of $195,933.61 was expended during the 2007/2008 fiscal year for 78 projects funded through the Environmental Youth Corps (EYC) including program administrative costs. The EYC supports environment-related projects involving hands-on participation of youth throughout Manitoba that include water quality, waste minimization, protection of flora and fauna, rehabilitation and conservation of the natural environment, wildlife conservation and habitat preservation.

Manitoba Climate Change Action Fund

A total of $398,500.00 was expended during the 2007/2008 fiscal year for nine projects funded through the Manitoba Climate Change Action Fund (MCCAF). The priority areas within MCCAF include education and outreach, impacts and adaptation, technical innovation and energy efficiency.

Waste Reduction and Pollution Prevention (WRAPP) Fund

A total of $538,644.32 was expended during the 2007/2008 fiscal year for 15 projects funded through the Waste Reduction and Pollution Prevention (WRAPP) Fund including WRAPP program development. The priority areas within the WRAPP Fund include composting, construction and demolition (C&D) waste management, green procurement, institutional waste reduction, integrated waste management, market development, pollution prevention, promotion and education and regional recycling.

Water Stewardship Fund

A total of $346,969.78 was expended during the 2007/2008 fiscal year for 19 projects under the Water Stewardship Fund, including the Zebra Mussel Program. The priority areas for project funding, under the Water Stewardship Fund, include watershed management planning and implementation, water-related scientific research, education and capacity building, water conservation, water quality and economic development.

Departmental and Government Strategic Priorities

Bear Smart Initiative

A total of $30,586.56 was expended during the 2007/2008 fiscal year to support the implementation of the Bear Smart Initiative in Manitoba, which will assist in preventing human-bear conflicts.

Manitoba Forestry Association Woodlot Program

A total of $200,000.00 was expended during the 2007/2008 fiscal year to support the Woodlot Program which encourages private landowners in Manitoba to use Agro-forestry and woodlot management practices to diversify farm income and maintain wildlife habitat.

Table 1: Summary of SDIF Open Category and Broad Allocation Projects

Project Categories	Number of Projects Allocated Funding in 2007/2008	Amount Expended
Open Fund Category		
Eco-tourism	3	$50,840.00
Ecosystem Conservation	9	$152,507.19
Environmental Technology Innovation and Demonstration	6	$136,000.00
Northern Community Development and Environmental Issues	2	$12,000.00
Sustainable Agricultural Practices	10	$240,678.76
Sustainable Community Development	10	$155,975.00
Understanding Our Environment	35	$536,539.00
Special Initiatives	2	$375,000.00
Total for Open Fund Category	**77**	**$1,659,539.95**
Broad Allocations Category **1. Targeted Funding Initiatives**		
Environmental Youth Corps (EYC)	78	$195,933.61
Manitoba Climate Change Action Fund (MCCAF)	9	$398,500.00
Waste Reduction and Pollution Prevention (WRAPP) Fund	15	$538,644.32
Water Stewardship Fund[1]	19	$346,969.78
2. **Departmental and Government Strategic Priorities**[2]		
Bear Smart Initiative		$30,586.56
Manitoba Forestry Association Woodlot Program		$200,000.00
Total for Broad Allocations Category		**$1,710,634.27**
Total for SDIF	**198**	**$3,370,174.22**

[1] The Water Stewardship Fund includes a funding sub-allocation for the Zebra Mussel Program.

[2] The *Bear Smart* Initiative and the Manitoba Forestry Association Woodlot Program activities are related to departmental and government priorities and do not award grants to project proponents.

PRÉFACE

Structure du rapport

La structure du rapport annuel de 2007-2008 du Fonds des innovations de développement durable (FIDD) est semblable à celle des rapports précédents, en ceci que les projets financés sont présentés par domaine de programmes et par catégorie d'attribution.

Les domaines de programmes et les catégories d'attribution des projets sont les suivants :

Catégorie ouverte du FIDD
- Domaines prioritaires de programmes du Fonds
- Initiatives spéciales
  - Section de coordination de la politique de bâtiments écologiques du Manitoba
  - Commission de gestion des pneus du Manitoba

Catégorie d'attributions générales
Les initiatives de financement visées sont les suivantes :
- Brigade des jeunes environnementalistes
- Fonds d'action pour le changement climatique du Manitoba
- Fonds pour la réduction du volume des déchets et la prévention de la pollution
- Fonds de gérance des eaux

Les priorités stratégiques du ministère et du gouvernement sont les suivantes :
- Programme « Bear Smart »
- Programme de protection des boisés de la Manitoba Forestry Association

Objectif

En 1989, le gouvernement provincial créait le Fonds des innovations environnementales en vertu de la *Loi sur l'environnement*. Après la révocation des dispositions de la *Loi* s'y rapportant en 1992-1993, on a créé le nouveau Fonds des innovations de développement durable en vertu du paragraphe 17(1) de la *Loi sur le développement durable*, qui est entrée en vigueur le 1er juillet 1998 afin d'appuyer et de promouvoir les initiatives de développement durable partout au Manitoba. En 2000-2001, de nouvelles catégories de financement ont été établies en vertu du Fonds.

Tel qu'énoncé dans la *Loi sur le développement durable*, le Fonds a pour objectif « de verser des subventions à l'appui de projets, d'activités, de programmes de recherche et de développement innovateurs qui améliorent le caractère durable de l'économie, de l'environnement, de la santé et du bien-être social au Manitoba tout en encourageant une croissance économique respectueuse de l'environnement; et de favoriser tout autre objectif en matière de développement durable innovateur que le lieutenant-gouverneur en conseil juge approprié ».

Le but du FIDD est de contribuer à la viabilité de l'environnement au Manitoba, qui a un effet indirect sur l'économie, la santé des gens et le bien-être social. Le FIDD atteint son but au moyen d'initiatives et de programmes de financement visés, auxquels on peut accéder en présentant une demande ou en déposant une soumission. Le FIDD propose deux catégories de financement : une catégorie ouverte et une catégorie d'attributions générales. Ces deux catégories et les programmes désignés sont conformes aux priorités de Conservation Manitoba et aux autres initiatives du gouvernement. Le FIDD soutient les projets établis au Manitoba et les projets qui sont à l'avantage du Manitoba tout en contribuant à remplir les objectifs du FIDD :

1. appuyer et promouvoir l'innovation dans les secteurs de l'environnement et du développement durable;
2. encourager des prises de décision et l'adoption de mesures respectueuses de l'environnement;
3. promouvoir la recherche et la mise à l'essai de nouvelles initiatives ne faisant pas partie des programmes existants;
4. favoriser le développement et la diversification de l'économie afin d'améliorer la qualité de vie et de renforcer notre identité collective partout au Manitoba;
5. adopter de nouveaux moyens d'éviter le gaspillage et la pollution et de conserver les ressources;
6. soutenir les activités pouvant être avantageuses pour l'environnement à l'échelle mondiale et locale.

Les deux catégories du Fonds, soit la catégorie ouverte et la catégorie d'attributions générales, contribuent à la protection, à l'amélioration, à la conservation ou à la remise en état de l'environnement au Manitoba. Un soutien financier est accordé pour l'élaboration, la mise en œuvre et la promotion de projets novateurs écologiquement viables menés par les administrations municipales, les ministères du gouvernement, les entreprises et l'industrie, les groupes communautaires, les groupes de jeunes, les organismes autochtones, les collectivités des Premières nations et les établissements d'enseignement.

En plus d'appuyer des initiatives spéciales, la catégorie ouverte a établi des domaines prioritaires :

- innovation et démonstration de technologies environnementales;
- conservation des écosystèmes;
- développement durable des collectivités;
- environnement et développement communautaire du Nord;
- pratiques agricoles durables;
- écotourisme.

La catégorie d'attributions générales appuie les initiatives de financement visées ainsi que les priorités stratégiques du gouvernement que sont :

- la participation des jeunes;
- la réduction des déchets et la prévention;
- le changement climatique;
- la qualité et la conservation de l'eau;
- la conservation des ressources naturelles.

Source de revenus

Le montant revenant au FIDD établi dans les prévisions budgétaires annuelles est lié en théorie aux dépenses annuelles du Fonds ou aux recettes prévues par le biais des taxes destinées à la protection de l'environnement imposées sur les bouteilles d'alcool en verre et sur les couches jetables, de la taxe de vente provinciale touchant les frais de manutention imposés par l'industrie des huiles de graissage, et de la taxe sur les ventes au détail s'appliquant à la vente de contenants de boisson non consignés et de pneus.

Communication

La promotion du Fonds est assurée par les activités suivantes :

- sites Web du gouvernement (Conservation Manitoba, Sciences, Technologie, Énergie et Mines Manitoba, Gestion des ressources hydriques Manitoba);
- activités communautaires, foires commerciales, expositions et conférences;
- communiqués de presse ministériels;
- remerciements dans les publications, documents imprimés, et annonce des projets financés;
- inscriptions dans les répertoires de sources de financement;
- bureaux et personnel du gouvernement provincial;
- bouche à oreille.

Processus et gestion du Fonds

La Direction de la prévention de la pollution de Conservation Manitoba gère le Fonds en vertu de la *Loi sur le développement durable* et elle lui fournit le soutien administratif général dont il a besoin, notamment à l'égard de la catégorie ouverte et de la catégorie d'attributions générales. Elle s'occupe notamment de répondre aux demandes de renseignements, de préparer la documentation et les rapports, de contrôler les dépenses, de dresser les relevés des mouvements de trésorerie et de rendre compte au Conseil du Trésor.

La Direction assure aussi la gestion de la catégorie ouverte du FIDD et de deux des initiatives de financement visées par la catégorie d'attributions générales, soit la Brigade des jeunes environnementalistes et le Fonds pour la réduction du volume des déchets et la prévention de la pollution.

Sciences, Technologie, Énergie et Mines Manitoba gère le Fonds d'action pour le changement climatique du Manitoba, tandis que Gestion des ressources hydriques Manitoba gère le Fonds de gérance des eaux, qui englobe le Programme de lutte contre la moule zébrée. Les autres attributions générales sont gérées par les directions du ministère de la Conservation.

La catégorie ouverte et la catégorie des attributions générales, dont relèvent la Brigade des jeunes environnementalistes, le Fonds d'action pour le changement climatique du Manitoba, le Fonds pour la réduction du volume des déchets et la prévention de la pollution et le Fonds de gérance des eaux, emploient des processus semblables en ce qui a trait aux demandes et aux propositions.

Le personnel de la Province évalue les propositions ou les demandes de financement de projets en fonction des critères du programme de financement. Les évaluations sont compilées et résumées avant d'être présentées au comité consultatif d'examen du Fonds, qui est composé de représentants des ministères provinciaux.

Ce comité examine les projets et les évaluations, puis il formule des recommandations au ministre de la Conservation en ce qui concerne le financement. Le ministre a reçu le pouvoir d'approuver les projets bénéficiant d'un financement maximal de 25 000 $. Les projets devant recevoir plus de 25 000 $ doivent être approuvés par le Conseil du Trésor.

Les projets demandant un soutien dans la catégorie générale sont évalués en fonction des critères suivants :

- ils portent sur au moins un des domaines prioritaires;
- ils font état de progrès mesurables vers la réalisation d'un ou de plusieurs des objectifs du Fonds;
- ils préconisent une démarche viable, présentent des avantages manifestes pour l'environnement et tiennent compte des avantages pour la collectivité et l'économie;
- ils font appel aux jeunes;
- ils ont obtenu par écrit des appuis et ils ont trouvé d'autres sources de soutien financier et non financier;
- ils ont un budget réaliste et recourent à des ressources appropriées pour se concrétiser;
- les dates du début et de la fin de chaque projet sont bien définies, et les projets sont mis en œuvre à temps;
- ils sont menés au Manitoba ou profiteront à la province;
- ils s'assortissent d'un plan clair et concret quant à leur utilisation, à leur diffusion ou à leur répétition dans l'avenir.

Les demandes d'inscription et de financement non admissibles à la catégorie générale comprennent :

- les projets aboutissant à l'acquisition d'un savoir-faire privatif détenu exclusivement par le bénéficiaire de la subvention;
- les demandes formulées à des fins de remboursement d'emprunt ou de recouvrement de coûts;
- l'achat d'équipement récréatif ou destiné à des terrains de jeux;
- l'achat de biens immobiliers (terrains, bâtiments) ou de véhicules;
- les frais d'administration permanents et les budgets d'exploitation établis;
- les projets qui doivent être mis en œuvre par suite d'une ordonnance du gouvernement (p. ex., élimination de réseaux de distribution de pétrole, études et travaux de remise en état).

Les Manitobains sont les principaux bénéficiaires du Fonds, qui veille à ce que les projets financés aient un impact direct sur le milieu naturel. En appuyant des pratiques respectueuses de l'environnement ayant un effet durable, le Fonds amène davantage les gens, les ménages, les entreprises et les établissements à changer leurs comportements.

Pendant l'exercice 2007-2008, une affectation de crédits de 3,4 millions de dollars a été autorisée pour soutenir le Fonds à l'égard des catégories suivantes :

Catégorie ouverte du FIDD

Catégorie d'attributions générales

1. Initiatives de financement visées
    - Brigade des jeunes environnementalistes
    - Fonds d'action pour le changement climatique du Manitoba
    - Fonds pour la réduction du volume des déchets et la prévention de la pollution
    - Fonds de gérance des eaux

2. Priorités stratégiques du ministère et du gouvernement
    - Programme « Bear Smart »
    - Programme de protection des boisés de la Manitoba Forestry Association

En tout, environ 3,3 millions de dollars ont été dépensés sur un total de 3,4 millions de dollars. Soixante-cinq nouveaux projets et deux initiatives spéciales ont reçu des fonds visés par la catégorie ouverte du FIDD en 2007-2008, qui s'élevaient à environ 1,6 million de dollars. Les nouveaux projets financés dans la même catégorie comprenaient des initiatives axées sur les intérêts des Autochtones, les programmes destinés aux jeunes, la protection de l'habitat ainsi que la recherche et l'analyse scientifiques. On a consacré environ 1,7 million de dollars à des projets s'inscrivant dans les six catégories d'attributions générales.

Un résumé des dépenses des projets dans la catégorie ouverte et la catégorie d'attributions générales est présenté dans les pages qui suivent.

CATÉGORIE OUVERTE DU FIDD - DOMAINES PRIORITAIRES DE PROGRAMMES : RÉSUMÉ

Écotourisme
En 2007-2008, la somme totale de 50 840 $ a été affectée à trois projets inscrits dans la catégorie de l'écotourisme. Il s'agissait d'initiatives ayant trait à la préservation des écosystèmes, à l'éducation du public et aux débouchés économiques créés par le tourisme, la priorité ayant été accordée aux collectivités rurales et du Nord.

Conservation des écosystèmes
En 2007-2008, la somme totale de 152 507,19 $ a été affectée à neuf projets inscrits dans la catégorie de la conservation des écosystèmes. Les objectifs sont ici de conserver les ressources, de préserver et d'entretenir les forêts et les écosystèmes urbains et de remettre en état et de revitaliser les zones dégradées.

Innovation et démonstration de technologies environnementales
En 2007-2008, la somme totale de 136 000 $ a été affectée à six projets inscrits dans la catégorie de l'innovation et de la démonstration de technologies environnementales. Les projets de cette catégorie comprennent les études de faisabilité, les travaux de recherche-développement sur de nouveaux produits et procédés, les démonstrations de technologies environnementales et les projets spéciaux tels que des études stratégiques concernant des secteurs industriels.

Environnement et développement communautaire du Nord
En 2007-2008, la somme totale de 12 000 $ a été affectée à deux projets inscrits dans la catégorie de l'environnement et du développement communautaire du Nord. Les projets de cette catégorie doivent être axés sur la mise en valeur de l'environnement et sur les activités de développement économique durable des collectivités du Nord et des localités éloignées, la priorité étant accordée aux collectivités autochtones.

Pratiques agricoles durables
En 2007-2008, la somme totale de 240 678,76 $ a été affectée à dix projets inscrits dans la catégorie des pratiques agricoles durables. Les projets de cette catégorie comprennent des recherches, des projets de démonstration et des études de faisabilité sur les pratiques agricoles qui protègent l'environnement et qui contribueront à diversifier le secteur agricole du Manitoba.

Développement durable des collectivités
En 2007-2008, la somme totale de 155 975 $ a été consacrée à dix projets inscrits dans la catégorie du développement durable des collectivités, catégorie qui comprend les initiatives concernant l'éco-efficacité, la bonne gestion de l'environnement, les mécanismes de renforcement des capacités et la réhabilitation des centres-villes, l'accent étant mis sur les partenariats avec les peuples autochtones et les jeunes.

Comprendre notre environnement
En 2007-2008, la somme totale de 536 539 $ a été consacrée à 33 projets inscrits dans la catégorie Comprendre notre environnement. Les projets de cette catégorie sont axés sur des activités d'éducation et de sensibilisation, de formation ou de recherche et sur l'organisation de colloques et de forums visant à aider les Manitobains à prendre des décisions éclairées et à agir dans l'intérêt de l'environnement.

Initiatives spéciales

Section de coordination de la politique de bâtiments biologiques du Manitoba
En 2007-2008, la somme totale de 121 900 $ a été consacrée à la mise sur pied de la Section de coordination de la politique de bâtiments biologiques du Manitoba. La Section a été constituée et a tenu des consultations avec des intervenants du gouvernement et de l'industrie afin d'élaborer la politique et la peaufiner.

Commission de gestion des pneus du Manitoba
En 2007-2008, la somme totale de 253 100 $ a été consacrée à la Commission de gestion des pneus du Manitoba pour la création d'un nouveau programme de gestion des pneus usagés dans la province, sous la direction de l'industrie, qui remplacera l'ancien programme dirigé par le gouvernement. Le nouveau programme

propose une incitation financière à recueillir et à recycler les pneus usagés des véhicules manitobains et est financé au moyen des éco-droits perçus sur tous les pneus vendus dans la province.

CATÉGORIE DES ATTRIBUTIONS GÉNÉRALES : RÉSUMÉ

Initiatives de financement visées

Brigade des jeunes environnementalistes

En 2007-2008, la somme totale de 195 933,61 $ a été consacrée à 78 projets relevant de la Brigade des jeunes environnementalistes, ce qui comprend les frais d'administration du programme. La Brigade soutient des projets liés à l'environnement favorisant la participation directe des jeunes de partout au Manitoba dans les domaines de la qualité de l'eau, de la réduction des déchets, de la protection de la flore et de la faune, de la restauration et de la conservation des milieux naturels et de la conservation des espèces sauvages et des habitats naturels.

Fonds d'action pour le changement climatique du Manitoba

En 2007-2008, la somme totale de 398 500 $ a été consacrée à neuf projets relevant du Fonds d'action pour le changement climatique du Manitoba (FACCM). Les domaines prioritaires de ce Fonds sont l'éducation et la sensibilisation, les impacts et l'adaptation, les innovations techniques et l'efficacité énergétique.

Fonds pour la réduction du volume des déchets et la prévention de la pollution

En 2007-2008, la somme totale de 538 644,32 $ a été consacrée à quinze projets relevant du Fonds pour la réduction du volume des déchets et la prévention de la pollution, ce qui comprend l'élaboration de ses programmes. Les domaines prioritaires du Fonds sont le compostage, la gestion des déchets de construction et de démolition, l'approvisionnement écologique, la réduction du volume des déchets des établissements, la gestion intégrée des déchets, le développement des marchés, la prévention de la pollution, la promotion et l'éducation, et le recyclage à l'échelle régionale.

Fonds de gérance des eaux

En 2007-2008, la somme totale de 346 969,78 $ a été affectée à 19 projets relevant du Fonds de gérance des eaux, ce qui comprend le Programme de lutte contre la moule zébrée. Dans le cadre du Fonds de gérance des eaux, les domaines primordiaux de financement sont la planification et la mise en œuvre des projets de gestion des bassins hydrographiques, la recherche scientifique sur les eaux, l'éducation et le renforcement des capacités, la qualité de l'eau et le développement économique.

Priorités stratégiques du ministère et du gouvernement

Programme « Bear Smart »

En 2007-2008, la somme totale de 30 586,56 $ a servi à soutenir la mise en œuvre du Programme « Bear Smart » au Manitoba, qui vise à prévenir les conflits entre l'être humain et les ours.

Programme de protection des boisés de la Manitoba Forestry Association

En 2007-2008, la somme totale de 200 000 $ a servi à soutenir le Programme de protection des boisés, qui encourage les propriétaires fonciers privés du Manitoba à employer des pratiques de gestion agroforestière et de gestion des terrains boisés qui diversifient les revenus agricoles et qui préservent les habitats naturels.

Tableau 1 : Résumé des projets de la catégorie ouverte du FIDD et de la catégorie des attributions générales

Catégories de projets	Nombre de projets financés en 2007-2008	Sommes attribuées
Catégorie ouverte		
Écotourisme	3	50 840,00 $
Conservation des écosystèmes	9	152 507,19 $
Innovation et démonstration de technologies environnementales	6	136 000,00 $
Environnement et développement communautaire du Nord	2	12 000,00 $
Pratiques agricoles durables	10	240 678,76 $
Développement durable des collectivités	10	155 975,00 $
Comprendre notre environnement	35	536 539,00 $
Initiatives spéciales	2	375 000,00 $
Total – Catégorie ouverte	**77**	**1 659 539,95 $**
Catégorie des attributions générales **1. Initiatives de financement visées**		
Brigade des jeunes environnementalistes	78	195 933,61 $
Fonds d'action pour le changement climatique du Manitoba	9	398 500,00 $
Fonds pour la réduction du volume des déchets et la prévention de la pollution	15	538 644,32 $
Fonds de gérance des eaux[1]	19	346 969,78 $
2. **Priorités stratégiques du ministère et du gouvernement**[2]		
Programme « Bear Smart »		30 586,56 $
Programme de protection des boisés de la Manitoba Forestry Association		200 000,00 $
Total – Catégorie des attributions générales		1 710 634,27 $
Total – FIDD	**198**	3 370 174,22 $

[1] Le Fond de gérance des eaux comprend une subvention pour le Programme de lutte contre la moule zébrée.

[2] Il n'y a pas de subventions accordées aux promoteurs de projets entrant dans le cadre du Programme *Bear Smart* et du Programme de protection des boisés de la Manitoba Forestry Association, qui relèvent des priorités stratégiques du ministère et du gouvernement.

ECO-TOURISM

PROJECTS ALLOCATED FUNDING

DURING THE 2007/2008 FISCAL YEAR

UNDER THE SDIF OPEN CATEGORY

Number of Projects: 3

Total Amount Expended: $50,840.00

Project Name	Total Expended
Centre D'interpretation Saint-Leon	$17,000.00
Headingley Grand Trunk Trail	$10,000.00
Interpretive Trail Development in Clearwater, Manitoba	$23,840.00

ECO-TOURISM

DETAILED LISTING OF PROJECTS ALLOCATED

FUNDING DURING THE 2007/2008 FISCAL YEAR

CENTRE D'INTERPRETATION SAINT-LEON

Proponent: Centre d'interprétation de la salamandre inc.
Date Approved: March 20, 2007
Total Amount Approved: $17,000.00
Total Amount Expended: $17,000.00

Summary:

A grant of $17,000.00 was approved to continue the development of a plan to create and implement educational programming at the Saint-Leon Tourism Centre highlighting Saint-Leon's unique environmental features, namely the tiger salamander and its wetlands, and the wind energy farm. The long term goal is to develop and implement a strategic tourism and marketing plan for the centre.

HEADINGLEY GRAND TRUNK TRAIL

Proponent: Headingley Grand Trunk Trail Association
Date Approved: March 20, 2007
Total Amount Approved: $10,000.00
Total Amount Expended: $10,000.00

Summary:

A grant of $10,000.00 was approved to construct a passageway across a creek within the boundaries of Beaudry Park, west of Winnipeg, Manitoba. The proposed passageway will cross the creek to the west of the Beaudry Park maintenance yard and join two sections of the existing Oak Trail. Passage over the creek is not possible in the spring, summer, and fall when water levels are high. The completed trail will provide a link from the community of Headingley east to the Harte Trail in Winnipeg, through the Assiniboine Forest, to Fort Whyte Alive. Construction of the trail and passageway or bridge in Beaudry Park will enhance the ecotourism aspect of the Headingley Grand Trunk Trail and surrounding area for all recreational trail users.

INTERPRETIVE TRAIL DEVELOPMENT IN CLEARWATER, MANITOBA

Proponent: Harvest Moon Society
Date Approved: December 21, 2007
Total Amount Approved: $23,840.00
Total Amount Expended: $23,840.00

Summary:

A grant of $23,840.00 was approved to promote environmental respect and sustainable land use by developing a network of interpretive and recreational trails in Clearwater, Manitoba that will help to preserve the natural environment of the Cypress Creek Valley. The trails will provide educational and wildlife viewing opportunities for area schools, serving as a field trip destination for the Prairie Spirit School Division, in addition to post-secondary students. The trails will assist in contributing to the development of eco-tourism and agro-tourism prospects for the Town of Clearwater and the Rural Municipality of Louise, as well as providing recreational facilities for rural residents from the surrounding area. Further information on the Harvest Moon Society can be found at www.harvestmoonsociety.org.

ECOSYSTEM CONSERVATION

PROJECTS ALLOCATED FUNDING

DURING THE 2007/2008 FISCAL YEAR

UNDER THE SDIF OPEN CATEGORY

Number of Projects: 9

Total Amount Expended: $152,507.19

Project Name	Total Expended
Broadway Avenue Adopt-A-Tree	$32,000.00
Burrowing Owl Nest Boxes	$5,150.00
Henteleff Park Restoration Project	$24,160.00
Leafy Spurge Control in Spruce Woods Provincial Park	$4,797.19
Manitoba Tall-grass Prairies, Year 2	$25,000.00
Noninvasive Monitoring of Polar Bears	$10,400.00
Peregrine Falcon Recovery Programme 2008-2009	$25,000.00
Protection and Conservation of the Threatened Dakota Skipper and Poweshiek Skipperling in Manitoba	$11,000.00
Turtle Mountain Conservation Agreement Program, Year 3	$15,000.00

ECOSYSTEM CONSERVATION

DETAILED LISTING OF PROJECTS ALLOCATED

FUNDING DURING THE 2007/2008 FISCAL YEAR

BROADWAY AVENUE ADOPT-A-TREE PROGRAM

Proponent: Coalition to Save the Elms, Manitoba Inc.
Date Approved: June 16, 2006
Total Amount Approved: $160,000.00
Total Amount Expended: $32,000.00
Total Amount Projected: $96,000.00 (FY 2008/2009 to 2010/2011)

Summary:

A total grant of $32,000.00 was approved for the second year of a five year, multi-faceted project which includes an educational and awareness component to rescue, rejuvenate, enhance and maintain the shade trees along Broadway Avenue form Osborne to Main Street in Winnipeg. Main traffic arteries such as Broadway pose especially harsh conditions that are characterized by intense heat, drought and flooding, solar radiation and air pollution from traffic. The project will introduce, test and demonstrate recent technologies to improve the soil profile. The education component of the project includes presentations, advertising, publicity events and implementation of tree rejuvenating methods to highlight the degeneration of urban infrastructure, urban forest and individual trees and provide examples of alleviation and preservation techniques. The first two years of the five-year project will focus on monitoring for signs of Dutch Elm disease and other diseases while the final three years will focus on follow-up and remedial work. Further information on this project can be found on the Coalition to Save the Elms, Manitoba Inc. website at www.savetheelms.mb.ca/Broadway_Avenue_AdoptATree.htm.

BURROWING OWL NEST BOXES

Proponent: Tiger Hills Conservation District
Date Approved: July 10, 2007
Total Amount Approved: $5,150.00
Total Amount Expended: $5,150.00

Summary:

A grant of $5,150.00 was approved to promote and increase awareness about preserving the native prairie and recovery of endangered wildlife, specifically the burrowing owl, which is listed as endangered both federally and provincially. The Conservation District proposes to work with landowners and school groups in the construction and installation of artificial nesting/burrowing structures to help increase owl populations. Students will learn about the problems and issues burrowing owls face, as well as will receive information explaining the importance of the native prairie and this species.

HENTELEFF PARK RESTORATION PROJECT

Proponent: The Henteleff Foundation Inc.
Date Approved: July 10, 2007
Total Amount Approved: $24,160.00
Total Amount Expended: $24,160.00

Summary:

A grant of $24,160.00 was approved to improve water flow and water quality in Normand Creek and restore riparian vegetation and tall grass prairie in Henteleff Park located in the south St. Vital area of Winnipeg. This 40 acre site was designated as a park for passive recreational use in 2002 and is bordered by the Red River. The park contains patches of riparian forest and a narrow fringe of forest along the Red River and Normand Creek. The formerly cultivated land will be converted to tall grass prairie, the riparian zone along the banks of Normand Creek will be restored and stabilized with native vegetation plantings, and water flow will be enhanced by removing large debris. At least 10 fish species, including the silver chub, a species at risk, have been documented using Normand Creek. The improvements should benefit those species, as well as encourage additional species of fish to use the creek.

LEAFY SPURGE CONTROL IN SPRUCE WOODS PROVINCIAL PARK

Proponent: Manitoba Conservation, Parks and Natural Areas
Date Approved: March 13, 2007
Total Amount Approved: $4,810.00
Total Amount Expended: $4,797.19

Summary:

An allocation of $4,810.00 was approved to reduce the density of targeted leafy spurge stands in Spruce Woods Provincial Park thus reclaiming native prairie sites and enhancing animal diversity in these areas. Leafy spurge is an invasive weed species that have an impact on the ecosystem, crowding native vegetation and wildlife. The weed is spreading in the Park despite current efforts to control it with spurge beetles and herbicides. A goat grazing project will be implemented to decrease leafy spurge in the Park. The project will be monitored and adjusted before expanding the project over the next four years. Spurge stem counts will be completed before each grazing year; native plant composition will be monitored with photographs and notes on species diversity; and in applicable areas, Northern Prairie Skinks will be monitored. The Park's interpretive programs will raise awareness about this invasive species and control measures used in the Park.

MANITOBA TALL-GRASS PRAIRIES, YEAR 2

Proponent: University of Manitoba, Natural Resources Institute
Date Approved: March 20, 2008
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved for the second year of a research project to document the effects of tall-grass prairie loss and fragmentation on birds, invertebrates and vegetation while identifying the number and ecological status of tall-grass prairies remaining in Manitoba. The study also aims to demonstrate trends in prairie conservation over the last two decades, and provide baseline data so that future prairie loss and degradation in Manitoba can be quantified and prevented. A thorough inventory of existing prairies, an evaluation of recent trends in conservation of tall grass prairies and the stresses that influences it will be undertaken to understand the potential effects of further loss and degradation of this complex ecosystem. Bird, invertebrate and plant community surveys will be conducted to determine the quality of prairie remaining in Manitoba. Vegetation surveys from the 1980s and 1990s will be compared with those from 2006 to 2008.

NON-INVASIVE MONITORING OF POLAR BEARS

Proponent: Hudson Bay Project Corporation
Date Approved: December 21, 2007
Total Amount Approved: $10,400.00
Total Amount Expended: $10,400.00

Summary:

A grant of $10,400.00 was approved to study polar bear populations in Western Hudson Bay, using a non-invasive monitoring approach to determine local abundance, survival, movement patterns, relatedness and diet using molecular analysis of passively shed hair and scat. From extracted DNA, individual genotypes from each animal will be used to estimate demographic parameters, including male and female movement patterns. Relatedness among closely associating bears and in denning areas will be assessed to determine social behaviours and familial relationships, and sex and specific diet will be quantified to determine how polar bears are responding or adapting to changing environmental conditions and food supplies. Non-invasive monitoring results will be compared to traditional capture monitoring methods to determine the most cost-effective, suitable monitoring strategy.

PEREGRINE FALCON RECOVERY PROGRAMME 2008/2009

Proponent: Parkland Mews Falconry and Bird of Prey Education Inc.
Date Approved: March 20, 2008
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved for the second phase of the Manitoba Peregrine Recovery Plan, which is to encourage the peregrines to breed in an artificial nesting tower adjacent to overhead power lines and assist their young to survive in a human altered landscape. In order to maximize success toward achieving this goal, a specially designed hack tower was constructed and strategically placed to provide monitoring opportunities of the young falcons as they negotiate the nearby transmission lines during formative flying stages, particularly when attempting to chase and capture prey. With the annual release of young peregrines from the tower, valuable insights will be gained into managing the birds in a state of protected liberty. As well as occupying the tower as part of its home range, a further step is to train peregrines to include the tower as a model nest site and breeding territory. Further information on Parkland Mews can be found at www.parklandmews.com.

PROTECTION AND CONSERVATION OF THE THREATENED DAKOTA SKIPPER AND POWESHIEK SKIPPERLING IN MANITOBA

Proponent: University of Winnipeg, Department of Biology
Date Approved: March 20, 2007
Total Amount Approved: $11,000.00
Total Amount Expended: $11,000.00

Summary:

A grant of $11,000.00 was approved for a study to determine the population status of two butterfly species in Manitoba, the Poweshiek skipperling and the Dakota skipper, both considered to be species at risk The Manitoba population of the Poweshiek skipperling is the last one in Canada and occupies a small portion of the Tall Grass Prairie Preserve near Gardenton, Manitoba. The Dakota skipper occurs on a few isolated patches of remaining mixed grass prairie in the Interlake, southwest Manitoba and along the Manitoba/Saskatchewan border. Methods to integrate both long term skipper survival rates and sustainable agricultural practices on the current land base will be examined and future management options will be developed for both species, which will be dependent on the population status and habitat assessment components. In addition, the potential for re-introduction of each of these species into other protected areas in Manitoba from which these species are now absent, but were once common will be examined.

TURTLE MOUNTAIN CONSERVATION AGREEMENT PROGRAM, YEAR 3

Proponent: Turtle Mountain Conservation District
Date Approved: November 8, 2007
Total Amount Approved: $15,000.00
Total Amount Expended: $15,000.00

Summary:

A grant of $15,000.00 was approved for the third year of a "Conservation Agreement Program" to secure critical wetland and forested habitat through the signing of conservation agreements with landowners in the conservation district. Workshops will be conducted to raise awareness about the importance of natural areas and sustainable woodlot management practices and woodlot plans. This project will help to ensure that the ecological integrity of the Turtle Mountain region is protected and that habitat is conserved within the watershed. Further information on this program can be found on the Turtle Mountain Conservation District website at www.tmcd.ca

ENVIRONMENTAL TECHNOLOGY INNOVATION AND DEMONSTRATION

PROJECTS ALLOCATED FUNDING

DURING THE 2007/2008 FISCAL YEAR

UNDER THE SDIF OPEN CATEGORY

Number of Projects: 6

Total Amount Expended: $136,000.00

Project Name	Total Expended
Control of Potable Water Disinfection with Chlorine Dioxide	$21,000.00
Improving Wind Generation Forecast Accuracy	$15,000.00
Pork Manure Separation Project	$25,000.00
Solar Energy System Applications and Research	$25,000.00
Sustainable Phosphorus Removal using Internal Biomass	$25,000.00
Waste Stream Biogas Conversion Evaluation	$25,000.00

ENVIRONMENTAL TECHNOLOGY INNOVATION AND DEMONSTRATION

DETAILED LISTING OF PROJECTS ALLOCATED

FUNDING DURING THE 2007/2008 FISCAL YEAR

CONTROL OF POTABLE WATER DISINFECTION WITH CHLORINE DIOXIDE

Proponent: University of Manitoba, Department of Civil Engineering
Date Approved: September 28, 2007
Total Amount Approved: $21,000.00
Total Amount Expended: $21,000.00

Summary:

A grant of $21,000.00 was approved to undertake research to determine if chlorine dioxide disinfection is a safe, economical alternative technology that can be used in potable water systems. Almost all of the water systems in Manitoba use chlorine or hypochlorites for disinfection. Use of these chemicals results in the formation of Trihalomethanes (THMs), via natural chemical degradation. Levels of THMs are regulated under *The Drinking Water Safety Act*. If successful, this research may prevent costly water treatment upgrades through use of new water disinfectants that do not create THMs.

IMPROVING WIND GENERATION FORECAST ACCURACY

Proponent: Invenia Technical Computing Corporation
Date Approved: September 28, 2007
Total Amount Approved: $15,000.00
Total Amount Expended: $15,000.00

Summary:

A grant of $15,000.00 was approved for a study with Manitoba Hydro to improve the reliability and accuracy of wind generation forecasts for the Saint Leon site and other future wind sites in Manitoba. It is proposed that a more accurate generated forecast will improve system reliability and make wind generation a more economically viable resource through increased electricity exports. The current accuracy of wind generation forecasts is a major hurdle inhibiting the massive adoption of this low impact, sustainable and environmentally friendly source of electricity, both in Manitoba and around the world. As a result of improved forecast accuracy, it is proposed that wind generation will become one of the most reliable and accessible green energy sources, making it a competitive alternative to fossil fuel and other non-sustainable generation sources.

PORK MANURE SEPARATION

Proponent: Manitoba Livestock Manure Management Initiative and HET Corporation
Date Approved: November 8, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved to demonstrate a new solid/liquid separation technology for hog manure and to test the feasibility of using the technology to treat poultry manure. The project intends to verify the scalability of the system as it may apply to the size of farm operations in Manitoba and provide valuable data that will be used to evaluate the potential of implementing a plant to pelletize the solid portion of the manure. This technology may prove to be successful in Manitoba conditions at reducing odour and greenhouse gas emissions, as well as controlling the phosphorus content of hog manure.

SOLAR ENERGY SYSTEM APPLICATIONS AND RESEARCH

Proponent: University of Manitoba, Department of Mechanical and Manufacturing Engineering
Date Approved: July 10, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved to study and demonstrate various solar energy technologies at the University of Manitoba. As part of this demonstration project, students will assist with the installation and maintenance of three solar energy systems, as well as study and track system performance. This project is phase two of a four-phase project which will assist in facilitating the development of policies on solar energy in Manitoba. As the project proceeds, a better understanding of the effectiveness of solar energy use in heating and electrical applications may be realized and awareness of viable energy alternatives will grow leading to greater adoption of these technologies, as well as the reduction of greenhouse gases. Phase two will focus on promoting the use of solar energy technology in Manitoba, on increasing the use of non-fossil fuel electrical and heating sources, and in reducing the import of natural gas for heating purposes.

SUSTAINABLE PHOSPHORUS REMOVAL USING INTERNAL BIOMASS FERMENTATION

Proponent: University of Manitoba, Department of Civil Engineering
Date Approved: November 8, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved to develop a technology that employs in-line fermentation to convert a portion of excess sludge into a useable carbon source for the phosphorus accumulating organisms that are responsible for phosphorus removal. This zero cost energy source generation not only increases the efficiency of nutrient removal, but also results in the reduction of excess sludge production. The proposed research will develop new, more sustainable technology of enhanced biological phosphorus removal with simultaneous decrease of costs of final sludge disposal. Any reduction in operational cost would benefit the community and would also be an incentive towards faster implementation of phosphorus removal. The process will be implemented on a larger scale on real sewage if the process proves to be feasible.

WASTE STREAM BIOGAS CONVERSION EVALUATION

Proponent: Inwood Quarry Interpretive Centre
Date Approved: November 8, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved to develop, enhance and showcase a variety of energy conservation and alternative energy options at the interpretive centre. This includes the construction of parallel plug flow anaerobic digester systems, using varied waste material as feedstock, to determine the most appropriate design, cost and sizing of systems for possible use by municipal bodies, single farms and households, and multiple farms. The project will involve testing of multiple waste sources for potential methane production, as well as continued demonstration for public viewing, with the intent of promoting cost-effective biogas production.

NORTHERN COMMUNITY DEVELOPMENT AND ENVIRONMENTAL ISSUES

PROJECTS ALLOCATED FUNDING

DURING THE 2007/2008 FISCAL YEAR

UNDER THE SDIF OPEN CATEGORY

Number of Projects: 2

Total Amount Expended: $12,000.00

Project Name	Total Expended
SAGE: Securing Aboriginal Goals in Education	$10,000.00
Walking Path with Interpretive Signs	$2,000.00

NORTHERN COMMUNITY DEVELOPMENT AND ENVIRONMENTAL ISSUES

DETAILED LISTING OF PROJECTS ALLOCATED

FUNDING DURING THE 2007/2008 FISCAL YEAR

SAGE: SECURING ABORIGINAL GOALS IN EDUCATION

Proponent: University College of the North
Date Approved: September 28, 2007
Total Amount Approved: $10,000.00
Total Amount Expended: $10,000.00

Summary:

A grant of $10,000.00 was approved to bring members of the aboriginal and non-aboriginal community together to discuss long-term, sustainable education initiatives that will contribute to the sustainable aboriginal community development and future economic development in Northern Manitoba, particularly in the technologies and sciences. The project will allow highly knowledgeable and experienced educators to help the college meet its mandate to develop and implement programs that originate from and consistently reflect an indigenous perspective. The plan intends to reduce existing academic, social and economic disparities by using cultural-based approaches to research, teaching and learning, beginning at the pre-school level through to Grade 12.

WALKING PATH WITH INTERPRETIVE SIGNS

Proponent: Snow Lake Community Development Corporation
Date Approved: September 28, 2007
Total Amount Approved: $2,000.00
Total Amount Expended: $2,000.00

Summary:

A grant of $2,000.00 was approved to help the community rehabilitate its walking paths and install interpretive signs that will educate visitors and community members on the flora and fauna of the area and encourage a healthier lifestyle. Twenty-five permanent interpretive signs will be installed along the existing walkways and a large sign will be erected at the start of the walkway in town. Brochures will be printed describing the walking paths, and the walkways will be promoted in all the Snow Lake literature and correspondence.

SUSTAINABLE AGRICULTURAL PRACTICES

PROJECTS ALLOCATED FUNDING

DURING THE 2007/2008 FISCAL YEAR

UNDER THE SDIF OPEN CATEGORY

Number of Projects: 10

Total Amount Expended: $240,678.76

Project Name	Total Expended
Aquaponics Pilot Project	$17,925.00
Centre of Excellence in Sustainable Urban Agriculture	$25,000.00
Field Measurement of Nitrate Leaching Losses	$25,000.00
Growing Up Organic, Year 2	$18,500.00
Laboratory Evaluation of Anaerobic Co-Digestion of Hog Manure and Glycerol	$25,000.00
Solid Cattle Manure as Nutrient Source	$30,000.00
Swine Nutrient Utilization Model	$19,457.00
Temperature-moisture effect of C, N and P mineralization	$42,500.00
The Impact of Farmers' Markets on Communities	$15,000.00
Use of a Centrifuge (Mobile Unit) for Liquid/Solid Separation of Pig Manure	$22,296.76

SUSTAINABLE AGRICULTURAL PRACTICES

DETAILED LISTING OF PROJECTS ALLOCATED

FUNDING DURING THE 2007/2008 FISCAL YEAR

AQUAPONICS PILOT PROJECT

Proponent: Manitoba Aquaculture Producers' Association
Date Approved: March 20, 2008
Total Amount Approved: $17,925.00
Total Amount Expended: $17,925.00

Summary:

A grant of $17,925.00 was approved for a pilot project to develop a new approach to sustainable agriculture/aquaculture in Manitoba by establishing aquaponic mini-systems in Manitoba schools. Mini-aquaponics systems will be used to demonstrate aquaponic principles and the nitrification cycle in a re-circulating aquatic environment. Participating institutions are expected to engage both students and faculty in hands-on activities to learn all aspects of the aquaponic re-circulating systems, and of fish and plant production. This pilot project intends to demonstrate the potential opportunities of this environmentally friendly, sustainable and renewable resource as a "green" technology based industry.

CENTRE OF EXCELLENCE IN SUSTAINABLE URBAN AGRICULTURE

Proponent: FortWhyte Foundation Inc.
Date Approved: December 21, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000 was approved to develop a network of resource efficient solar greenhouses to provide employment, training, and year-round access to fresh, healthy, and affordable food. A network of greenhouses will be established in an inner-city Winnipeg location, a remote First Nations community, with FortWhyte Farms as the central "hub". At FortWhyte Alive, a 2000-square foot resource efficient solar greenhouse suitable for cold climates will be designed and constructed for year-round demonstration and training purposes. The project will also establish an in-depth urban agriculture and greenhouse training program targeted at at-risk youth, inner-city populations, northern residents, and others that will be operating similar type greenhouses. The training will focus on designing and constructing resource efficient greenhouses, using innovative techniques such as whole tree construction and use of locally sourced materials.

FIELD MEASUREMENT OF NITRATE LEACHING LOSSES

Proponent: University of Manitoba, Department of Soil Science
Date Approved: September 28, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved to continue a field study on the measurement and simulation of carbon, nitrogen and phosphorus leaching from manure and commercial fertilizer. Very few direct measurements of nitrate leaching have been made on the Canadian prairies due to the difficulty in measuring nutrient leaching in the root zone. Establishing cause and effect relationships using the most common technique of soil profile sampling is not possible and as a result, the magnitude of nutrient leaching from fertilizers and manures in Manitoba and the potential effect on ground water are unknown. The continuing study will add to the existing database and will assist in determining the probability of leaching events under Manitoba weather conditions.

GROWING UP ORGANIC, YEAR 2

Proponent: Organic Food Council of Manitoba
Date Approved: March 20, 2008
Total Amount Approved: $18,500.00
Total Amount Expended: $18,500.00

Summary:

A grant of $18,500.00 was approved to implement year two of a five-year initiative to link child care facilities with organic farmers, educate child care facilities about organic food consumption and production, and develop local rural and urban organic food systems. The focus of this phase of the initiative is to increase the number of facilities participating, and establish additional partnerships. The organization will develop a strategic plan to increase the amount of local organic food purchased by child care centres and other institutions. An outreach plan will be created and a new website will be established to further promote the initiative. Further information on the Organic Food Council of Manitoba, the local chapter of Canadian Organic Growers, can be found at https://www133.ssldomain.com/cog/manitoba.

LABORATORY EVALUATION OF ANAEROBIC CO-DIGESTION OF HOG MANURE AND GLYCEROL

Proponent: University of Manitoba, Department of Biosystems Engineering
Date Approved: December 21, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved to evaluate process design and supplemental feedstock options, such as glycerol, for the anaerobic digestion of hog manure to produce biogas. Glycerol, a by-product of biodiesel production, is expected to be widely available due to the projected growth of the biodiesel industry in Manitoba. This study will test various combinations of feedstock in laboratory-scale anaerobic digesters to obtain the optimum ratio of manure to glycerol. The use of glycerol as a feedstock amendment can potentially increase biogas yields while providing a viable market for a by-product generated during biodiesel production.

SOLID CATTLE MANURE AS A NUTRIENT SOURCE, PHASE III

Proponent: Manitoba Cattle Producers Association
Date Approved: October 3, 2006
Total Amount Approved: $60,000.00
Total Amount Expended: $30,000.00

Summary:

A grant of $30,000.00 was approved for the second year of a two-year study with the University of Manitoba and Agriculture and Agri-Food Canada to develop best management practices for use of solid cattle manure while improving soil fertility, texture and crop production, while minimizing environmental risk. In addition to the research, the releases of nutrients from manure to soils in annual and perennial crops will be demonstrated. Two study sites are proposed, a south west regional site and an Interlake regional site, each site having a different type of soil. Study results are expected to provide recent, local information and produce a practical application to problems faced by both agricultural producers and regulators of manure applications. Further information on the Manitoba Cattle Producers Association can be found at: www.gov.mb.ca/agriculture/livestock/beef/mcpa.html

SWINE NUTRIENT UTILIZATION MODEL

Proponent: University of Manitoba, Department of Animal Science
Date Approved: September 28, 2007
Total Amount Approved: $19,457.00
Total Amount Expended: $19,457.00

Summary:

A grant of $19,457.00 was approved to evaluate a feed utilization model, which accounts for nutrient input and output. While this model is in use elsewhere, it has not been evaluated using diets and animals that are specific to Manitoba. The project will measure key parameters in Manitoba conditions and rigorously test and modify the model for adoption by producers, farm advisors, feed companies and policy makers. The model allows for the integration of knowledge from many sources and will assist in addressing nutrient management, production costs, land base application requirements, and water pollution issues.

TEMPERATURE-MOISTURE EFFECT OF C, N AND P MINERALIZATION, PHASE II

Proponent: University of Manitoba, Department of Soil Science
Date Approved: October 3, 2006
Total Amount Approved: $42,500.00
Total Amount Expended: $42,500.00

Summary:
A grant of $42,500.00 was approved for the second year of a three-year project to research and evaluate the influence of temperature and moisture on carbon, nitrogen, and phosphorus mineralization in soil treated with different organic amendments, including municipal biosolids hog, poultry and beef cattle manure with straw bedding. As well a model to predict nutrients available from manure, using weather and soil information, will be developed.

THE IMPACT OF FARMERS' MARKETS ON COMMUNITIES

Proponent: Farmers' Markets Association of Manitoba Co-op Inc.
Date Approved: March 20, 2008
Total Amount Approved: $15,000.00
Total Amount Expended: $15,000.00

Summary:

A total grant of $15,000.00 was approved to study the size, strength, economic, and environmental impacts of the farmers' market sector. The study results will assist in developing benchmarks to measure future successes and identify members' needs in building capacity as marketers, as well as promoting increased production and consumption of locally grown foods.

USE OF A CENTRIFUGE (MOBILE UNIT) FOR LIQUID/SOLID SEPARATION OF PIG MANURE

Proponent: Manitoba Conservation, Environmental Services, Livestock Section
Date Approved: July 10, 2007
Total Amount Approved: $24,000.00
Total Amount Expended: $22,296.76

Summary:

An allocation of $24,000.00 was approved for a project to demonstrate a mobile Decanter-Centrifuge unit to remove phosphorus from raw manure. While there are many sources of phosphorus contributing to algae growth in Manitoba lakes and rivers, the land application of manure is of particular concern. Removing phosphorus from the liquid part of manure decreases its mobility and reduces the likelihood that it will enter waterways. The unit removes approximately 70% of phosphorus from raw manure. The remaining material is nutrient rich with high mineral fertilizer equivalence of phosphate.

SUSTAINABLE COMMUNITY DEVELOPMENT

PROJECTS ALLOCATED FUNDING

DURING THE 2007/2008 FISCAL YEAR

UNDER THE SDIF OPEN CATEGORY

Number of Projects: 10

Total Amount Expended: $155,975.00

Project Name	Total Expended
All Season Recreation Facility/Hall	$25,000.00
Community Garden Program Expansion	$10,000.00
Greening the Way	$15,000.00
Multi-User Commercial Kitchen Project	$15,975.00
Ningo Gikinonwin Cultural Project	$15,000.00
Princess Margaret School Greening Project	$5,000.00
Promoting Ecological Green Spaces	$5,000.00
Spence Green Plan, Phase Three	$15,000.00
Sustainable Forest Management and Cultural Sustainability	$25,000.00
Urban Watershed Education and Awareness Project	$25,000.00

SUSTAINABLE COMMUNITY DEVELOPMENT

DETAILED LISTING OF PROJECTS ALLOCATED

FUNDING DURING THE 2007/2008 FISCAL YEAR

ALL SEASON RECREATION FACILITY/HALL

Proponent: Wellman Lake United Church Camp
Date Approved: December 21, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved to assist with the installation of a low impact, energy efficient heating/cooling system in an all season recreation facility to be constructed at the youth camp. The facility is designed to blend into the natural setting of Wellman Lake in Duck Mountain Provincial Park and will showcase the long term benefits of using geothermal heat. The facility will serve as an example of energy efficiency for other camps or similar facilities.

COMMUNITY GARDEN PROGRAM EXPANSION

Proponent: City of Winnipeg, Parks and Open Space
Date Approved: March 20, 2008
Total Amount Approved: $10,000.00
Total Amount Expended: $10,000.00

Summary:

A grant of $10,000.00 was approved to help establish a Community Garden Charter. The City of Winnipeg has adopted a policy that identifies community gardens as an important source of recreation and leisure that strengthens communities and addresses vital issues such as food security, neighbourhood stabilization, and crime reduction. The Charter will address land tenureship through the development of use agreements for Community Garden groups, aid in the development of existing and potential garden sites, increase awareness of sustainable agricultural practices through an educational outreach program, and establish a means to deliver operational and funding support to existing and emerging sites.

GREENING THE WAY

Proponent: West Broadway Development Corporation
Date Approved: March 20, 2008
Total Amount Approved: $15,000.00
Total Amount Expended: $15,000.00

Summary:

A grant of $15,000.00 was approved to support a two-year initiative that will introduce, promote and maintain a comprehensive list of sustainable environmental practices in the West Broadway area. The organization will identify and mobilize West Broadway's environmentally supportive individuals, businesses, schools and community organizations and incorporate them as "anchors" through which to deliver targeted entry level environmental programming to youths, families, landlords, homeowners, residents and businesses. A green space development and composting plan and resource materials will be created in partnership with area stakeholders, community organizations, government agencies, and schools.

MULTI-USER COMMERCIAL KITCHEN PROJECT

Proponent: Chaboille Community Development Corporation
Date Approved: July 10, 2007
Total Amount Approved: $15,975.00
Total Amount Expended: $15,975.00

Summary:

A grant of $15,975.00 was approved for a pilot project to support local food production and sales, by developing a multi-use rental system and manual to use an existing commercial kitchen in the community. Most rural communities have community kitchens in halls, arenas, and museums, with few of them used on a daily basis. The project is expected to reduce the need to travel to the Portage Food Development Centre to use their commercial kitchen and anticipates the rental system and manual can be used in other rural communities.

NINGO GIKINONWIN CULTURAL PROJECT

Proponent: Community Holistic Circle Healing Inc.
Date Approved: July 10, 2007
Total Amount Approved: $15,000.00
Total Amount Expended: $15,000.00

Summary:

A grant of $15,000.00 was approved to create opportunities for Hollow Water First Nation youth to interact with the Elders and Traditional Knowledge holders in a culturally appropriate manner. The initiative will continue with youth-based activities initiated during 2006, where youth and Elders held gatherings during each of the four seasons, the youth received language instruction and participated in cultural workshops. The gatherings will provide an opportunity for the Elders to discuss various issues with the youth to increase environmental awareness, and heighten their interest in addressing these issues as part of the traditional responsibilities as Anishinaabek peoples.

PRINCESS MARGARET SCHOOL GREENING PROJECT

Proponent: Princess Margaret Community School Association
Date Approved: September 28, 2007
Total Amount Approved: $5,000.00
Total Amount Expended: $5,000.00

Summary:

A grant of $5,000.00 was approved to enhance the school's natural environment and help initiate a landscaping project to transform the schoolyard into a community green space along with an outdoor classroom. The outdoor space is expected to enhance the curriculum and engage children in stewardship of their environment. Students will learn about environmental needs, care, growth and development of trees and plants through hands-on activities. Specifically, they will learn about habitats, plants, trees and soils and identification of living organisms and their diversity. The schoolyard will also provide several defined areas that encourage play for students with a wide variety of age, ability and interest levels.

PROMOTING ECOLOGICALLY SUSTAINABLE GREEN SPACES

Proponent: University of Manitoba, Natural Resources Institute
Date Approved: March 20, 2008
Total Amount Approved: $5,000.00
Total Amount Expended: $5,000.00

Summary:

A grant of $5,000.00 was approved for a study to identify best practices for sustainable municipal gardens and urban green spaces. The maintenance of green spaces consumes many resources, and the aesthetic values of such spaces are continually being balanced against economic and environmental values when managing these types of spaces. A strategic framework to support ecologically sustainable operations for municipal gardens will be developed.

SPENCE GREEN PLAN, PHASE THREE

Proponent: Spence Neighbourhood Association, Inc.
Date Approved: March 20, 2008
Total Amount Approved: $15,000.00
Total Amount Expended: $15,000.00

Summary:

A grant of $15,000.00 was approved to support the third phase of a plan to develop green space in the Spence neighbourhood. Phase Three of the Green Plan proposes to improve green spaces in the densely populated neighbourhood, engage community members in using and supporting the green spaces, share information about sustainable activities, and support innovative plans to reduce the neighbourhood's environmental footprint.

SUSTAINABLE FOREST MANAGEMENT AND CULTURAL SUSTAINABILITY IN DUCK MOUNTAIN PROVINCIAL PARK

Proponent: West Region Tribal Council
Date Approved: November 8, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000 was approved for a study to review forest activities in the Duck Mountains and to determine how various activities have impacted the surrounding First Nation communities, many of whom derive some part of sustenance from the forest, in particular, Duck Mountain Provincial Park. The survey will determine current levels of subsistence hunting and gathering; how logging operations have affected access and resources; and types of forestry opportunities that may provide employment for First Nations. In addition, with assistance from Louisiana Pacific, subsistence land use areas will be mapped and qualitative data about activities at specific harvest areas, sites and seasonal camps from hunters, community members and elders will be gathered. Information gathered on this traditional territory is expected to assist in developing resource policies that balance the needs of all users.

URBAN WATERSHED EDUCATION AND AWARENESS PROJECT

Proponent: Assiniboine Watershed Network
Date Approved: March 20, 2008
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved to develop a sustainable, community-based education and awareness program for Sturgeon, Truro, and Omand's Creeks. The "Adopt a Creek" program will assist in improving the riparian area along the waterways of the lower Assiniboine watershed while educating local communities and school students about the benefits of healthy riparian areas and waterways. Partnerships with local schools will be formed to provide opportunities for youth to take ownership of manageable areas of the creeks and assist with the removal of invasive species, plant trees, conduct clean ups, sample fish and invertebrates, or monitor water quality. In addition, the program will be extended to area businesses, as much of Omand's Creek runs through an urbanized area where many stores, factories and offices are located.

UNDERSTANDING OUR ENVIRONMENT

PROJECTS ALLOCATED FUNDING

DURING THE 2007/2008 FISCAL YEAR

UNDER THE SDIF OPEN CATEGORY

Number of Projects: 35

Total Amount Expended: $536,539.00

Project Name	Total Expended
2007 Manitoba Climate Change Forum	$5,000.00
Assessing Manitobans' Understanding of Sustainable Development during the United Nations' Decade for Education for Sustainable Development	$16,500.00
Brokenhead Wetlands Educational Video	$25,000.00
Building Capacity for Canadian Environmental Learning	$25,000.00
Controls on Tallgrass Prairie Diversity, Year 3	$20,500.00
Dutch Elm Disease Research Project, Year 3	$23,265.00
Eat Local Grow Local	$23,000.00
Ectoparasites of Wildlife in Manitoba	$22,050.00
Elmwood Youth Environmental Education Project	$5,000.00
Farm and Fork: Producer and Consumer Roles in Sustainable Local Food Networks	$24,500.00
Green Kids Eco Tour 2008	$10,000.00
Hands-on Green Technology Problem Solving	$10,000.00
Historical Atlas of First Nations in Manitoba	$25,000.00
Ice Age Mammals	$25,000.00

Project Name	Total Expended
Impact of Habitat Modification on Prairie Skinks	$22,380.00
Invasive Species Council of Manitoba	$25,000.00
Little Saskatchewan School Outdoor Program	$2,000.00
Manure Management Conference 2007	$10,000.00
Manitoba Acid Rain Impacts Assessment	$25,000.00
Monitoring Killer and Beluga Whales	$10,000.00
Night of the Living Prairie Interactive Exhibit	$10,844.00
Pimachiowin Aki World Heritage Project-First Nations Learning Exchange	$10,000.00
Plug-in Hybrid Electric Vehicle Conference 2007	$10,000.00
Prairie Birds in Southwestern Manitoba	$19,000.00
Prairie Universities Biological Symposium 2008	$1,000.00
Revitalizing our Traditional Practices	$5,000.00
The Little Earth Charter	$5,000.00
Traditional Ecological Knowledge Sharing Partnership	$10,000.00
Traditional Knowledge Project	$10,000.00
Travelling Plants/Prairie Pollinators	$15,500.00
Twice-over Rotational Grazing and Birds	$25,000.00
Two Youth Forums/Showcases	$1,000.00
Utilization of Anthropogenic and Natural Corridors by Wolves in Eastern Manitoba, and the Impacts upon Woodland Caribou	$25,000.00
Virtual Science Resources Laboratory	$25,000.00
Wilderness Skills Development Camp	$10,000.00

UNDERSTANDING OUR ENVIRONMENT

DETAILED LISTING OF PROJECTS ALLOCATED

FUNDING DURING THE 2007/2008 FISCAL YEAR

2008 MANITOBA CLIMATE CHANGE CONFERENCE AND EARTH FORUM

Proponent: Manitoba Ozone Protection Industry Association Inc.
Date Approved: March 20, 2008
Total Amount Approved: $5,000.00
Total Amount Expended: $5,000.00

Summary:

A grant of $5,000.00 was approved for the 2008 Manitoba Climate Change Conference and Earth Forum in Winnipeg. The conference, hosted in partnership with Climate Change Connection and the Manitoba Environmental Industries Association, featured keynote speakers, concurrent workshops, poster sessions, and displays, on a variety of climate change and alternative energy and greening initiatives.

ASSESSING MANITOBANS' UNDERSTANDING OF SUSTAINABLE DEVELOPMENT DURING THE UNITED NATIONS' DECADE FOR EDUCATION FOR SUSTAINABLE DEVELOPMENT

Proponent: International Institute for Sustainable Development
Date Approved: July 10, 2007
Total Amount Approved: $16,500.00
Total Amount Expended: $16,500.00

Summary:

A grant of $16,500.00 was approved for a pilot project to better understand the current levels of awareness of sustainable development among Manitobans. Using baseline data, a monitoring framework to assess any changes in level of understanding will be established which will assist in assessing the effectiveness of educational efforts undertaken as part of the United Nations' Decade for Education for Sustainable Development. The successful development and execution of this methodology will allow the project to be replicated in other provinces to gain a national perspective of public understanding of sustainable development issues.

BROKENHEAD WETLANDS EDUCATIONAL VIDEO

Proponent: Brokenhead Ojibway Nation
Date Approved: July 10, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved to develop educational and informational resources, such as a video, brochure and display banners to promote awareness of the Brokenhead Wetlands and the need for their conservation. Traditional and sacred knowledge of the land will form an integral part this educational learning initiative which will be shared with the Aboriginal and Non-Aboriginal community. The Brokenhead Wetlands is a large wetland complex extending from the northeastern corner of Brokenhead Ojibway Nation, north to Beaconia Lake on the southeast shore of Lake Winnipeg and it includes many rare plants and animals, including twenty-eight of Manitoba's thirty-six native orchid species. In 2005, a large portion of the wetland was declared an ecological reserve under the Manitoba Protected Areas Initiative.

BUILDING CAPACITY FOR CANADIAN ENVIRONMENTAL LEARNING

Proponent: Canadian Network for Environmental Education and Communication
Date Approved: November 8, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved for the organization to act as a national network to provide leadership for provincial and regional associations to increase their capacity to develop and deliver high-quality, relevant environmental learning in Canada. The project is expected to assist in development of more effective strategies and tools to support stakeholders, while promoting environmental learning and strengthening connections and partnerships.

CONTROLS ON TALLGRASS PRAIRIE DIVERSITY, YEAR 3

Proponent: University of Manitoba, Department of Botany
Date Approved: March 20, 2008
Total Amount Approved: $20,500.00
Total Amount Expended: $20,500.00

Summary:

A grant of $20,500.00 was approved for the third year of a study to determine plant community diversity and structure in Manitoba tall-grass communities. Although Big Bluestem is the dominant cover species and is known to be competitively superior to other plants in the tall-grass prairie, findings have indicated that soil from Big Bluestem patches can reduce its growth and increase the chances it will be infected by a soil pathogen. Recent sampling of tall-grass prairie soils has shown that sites with little variation in topography can have substantial variation in soil moisture. This variation is likely to strongly influence both nutrient availability and soil microbe abundance. In addition, nutrient availability varies throughout a site's fire management cycle, and research will be continued to examine how fire affects nutrient cycling and how both nutrient availability and soil moisture affects the interaction between soil microbes and plant community diversity. Research findings will result in recommendations for enhancing tall-grass restoration.

DUTCH ELM DISEASE RESEARCH PROJECT, YEAR 3

Proponent: University of Manitoba, Department of Botany
Date Approved: March 20, 2008
Total Amount Approved: $23,265.00
Total Amount Expended: $23,265.00

Summary:

A grant of $23,265.00 was approved for the third year of a four-year research project to improve control methods of Dutch Elm Disease (DED) in Manitoba communities. The research will lead to practical information for urban forest managers to improve the efficacy and sustainability of integrated DED management programs. Several research experiments are being performed to respond to known information gaps regarding the spread of DED. Research experiments will be undertaken along the south bank of the La Salle River at Camp Amisk to determine if newly-diagnosed trees source large numbers of spore-carrying beetles that act as vectors of the disease, and along the north side of the La Salle River to determine what contributions to the spore bearing overwintered population of native elm bark beetles is attributable to brood from newly-infected trees, using powder-marked over wintering beetles. Identification of effective and more environmentally friendly pesticides for basal applications to control over wintering DED vectors will also take place.

EAT LOCAL GROW LOCAL

Proponent: Manitoba Food Charter
Date Approved: July 10, 2007
Total Amount Approved: $23,000.00
Total Amount Expended: $23,000.00

Summary:

A grant of $23,000.00 was approved for a pilot project to raise public awareness on the benefits of purchasing and consuming locally produced or harvested foods in Manitoba. Manitobans will become more aware of local food and food systems, including learning more on total distance food travels and reducing greenhouse gas emissions. On average, food items travel over 2,000 miles from producer to consumer and generally, knowledge is lacking about the availability and benefit of locally produced foods. This project will consist of a pilot education campaign that includes point of sale educational materials on the benefits of eating locally, including store front displays, store shelf signage, brochures, and local food postcard requests for participating grocers. Promotional items will be distributed to select stores in Winnipeg, rural, and northern Manitoba.

ECTOPARASITES OF WILDLIFE IN MANITOBA

Proponent: University of Manitoba, Department of Entomology
Date Approved: September 28, 2007
Total Amount Approved: $22,050.00
Total Amount Expended: $22,050.00

Summary:

A grant of $22,050.00 was approved to collect and characterize a variety of information on ectoparasite species infesting Manitoba wildlife, enter this information into the J.B. Wallis Museum of Entomology database and make it accessible on the web. Ectoparasites are a poorly known component of wildlife communities in Canada. The study will examine the prevalence and intensity of infestation for each species, determine biogeographic and ecological features in relationship to their hosts, and determine the conservation status of each species. With predicted climate change, ectoparasites, parasites and diseases could cause serious consequences for Manitoba wildlife. The study will provide baseline information on the biodiversity of the ectoparasite and host communities.

ELMWOOD YOUTH ENVIRONMENTAL EDUCATION PROJECT

Proponent: Elmwood Community Resource Centre
Date Approved: December 21, 2007
Total Amount Approved: $5,000.00
Total Amount Expended: $5,000.00

Summary:

A grant of $5,000.00 was approved for a community based program that will increase awareness and foster an appreciation for environmental issues by promoting, training and educating youth on environmental sustainability issues through workshops, field trips, educational kits, waste reduction challenges and tree planting activities. It is intended that youth will identify specific environment-related issues and problem solve with others to derive solutions on how to address various issues within the community.

FARM AND FORK: PRODUCER AND CONSUMER ROLES IN SUSTAINABLE LOCAL FOOD NETWORKS

Proponent: University of Manitoba, Environmental Conservation Lab
Date Approved: July 10, 2007
Total Amount Approved: $24,500.00
Total Amount Expended: $24,500.00

Summary:

A grant of $24,500.00 was approved for a study to identify, evaluate and promote the links between local food and environment and sustainable agriculture. Research outcomes, education and communication through video, pamphlets, websites and educational labeling are expected to inform consumers and producers of the economic, environmental and social benefits of local food systems. The study intends to document changes in energy consumption of producers before and after becoming involved in local food production networks to discern whether local food responses are sustainable; interview producers to document changes in flora and fauna that may be related to local producers and other environmental gains associated with water quality and pesticide application; and explore the relationships between local food production and organic farming practices.

GREEN KIDS ECO TOUR 2008

Proponent: Green Kids Inc.
Date Approved: March 20, 2007
Total Amount Approved: $10,000.00
Total Amount Expended: $10,000.00

Summary:

A grant of $10,000.00 was approved for the "Climate Change Tour," to be delivered to schools, shopping malls and festivals to increase audience awareness about environmental issues, specifically climate change and the immediate steps that can be taken to curb its effects. Using the talents of the theatre, education and scientific communities, the tour will create a program focusing on proactive behaviour, intended to provide information on the positive impacts youth may have on the environment and the future of the planet. For schools, an educational resource kit will be provided to teachers in advance of the show to prepare children for what they will see and to generate classroom discussions. The Teacher's Kit will outline ways in which the Green Kids performance adheres to school curriculum and learning outcomes, including a variety of educational activities and lessons based upon the theme of the tour. Further information on Green Kids Inc. can be found at www.greenkids.com.

HANDS-ON GREEN TECHNOLOGY PROBLEM SOLVING

Proponent: Decker Colony School
Date Approved: November 8, 2007
Total Amount Approved: $10,000.00
Total Amount Expended: $10,000.00

Summary:

A grant of $10,000.00 was approved for a school program focusing on communication, teamwork and problem solving skills, and technology training. Students will learn technical skills in various fields including thermal systems, AC/DC electrical, pneumatics and receive hands-on training using Amatrol trainers, which consist of integrated workstations, simulation software and high-quality interactive multimedia. Students will apply these technologies and the enterprise process to research, plan, and design projects using alternative energy, such as bio-fuel, solar power, wind power, or waste compaction.

HISTORICAL ATLAS OF FIRST NATIONS IN MANITOBA

Proponent: Treaty Relations Commission of Manitoba
Date Approved: March 20, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved for phase one of a three-phase research study to produce a comprehensive multi-disciplinary historical atlas of Treaty First Nations in Manitoba. An accompanying curriculum and teachers' guide, interactive web site, a small map and poster series will be developed and mapping workshops for First Nation communities will be delivered. The scope of the research will be extensive to accommodate the geographical expanse of the province, cultural diversity of First Nations and other Manitobans, and various ranges of perspectives. In addition, the study will focus on seven Treaty regions, five Indigenous language groups, a wide range of ecological zones, and every First Nation community in Manitoba.

ICE AGE MAMMALS

Proponent: The Manitoba Museum
Date Approved: September 28, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved to present an interpretative and interactive bilingual traveling exhibit. The exhibit will attempt to go beyond the exclusive presentation of the ice age period by examining climatic changes during this pre-historic time that led to the extinction of many animal species. A full roster of interpretive experiences will be developed and techniques employed by paleontologists and geologists to uncover the fossil record of this ancient ecosystem will be used. The exhibit will introduce two paleontologists, who hope to challenge perceptions of the ice age, lay the foundation for understanding this ancient ecosystem, and pose commonly asked questions about it.

IMPACT OF HABITAT MODIFICATION ON PRAIRIE SKINKS

Proponent: Brandon University, Department of Biology
Date Approved: March 20, 2008
Total Amount Approved: $22,380.00
Total Amount Expended: $22,380.00

Summary:

A grant of $22,380.00 was approved for a multi-year research initiative to identify the extent and impact of habitat modification on the endangered prairie skink populations inhabiting the mixed-grass prairie ecosystem in southwestern Manitoba. Research will identify current and historic population distributions relative to land-use classifications, and determine genetic diversity among populations. Loss of native mixed-grass prairie habitat is considered the most important factor affecting prairie skink populations in Manitoba. Determining the impact on skinks from habitat alteration will assist with future management decisions regarding activities that may impact skink populations.

INVASIVE SPECIES COUNCIL OF MANITOBA

Proponent: Invasive Species Council of Manitoba
Date Approved: September 28, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved to provide services that will prevent, detect and manage invasive species in Manitoba. As a recently formed province-wide leadership body, the organization aims to facilitate information exchange on programs, activities, emerging invasive species concerns, project reports, relevant news, and upcoming events by publishing a newsletter for electronic distribution to all stakeholders and the general public. In addition, a workshop will be held for all stakeholders, including representatives from the Western Canadian Action Network on Invasive Plants (WCANIP) to establish linkages between provincial invasive species councils, including British Columbia, Alberta, Saskatchewan and Manitoba to improve communication, exchange information and form strong networks.

LITTLE SASKATCHEWAN SCHOOL OUTDOOR PROGRAM

Proponent: Little Saskatchewan School
Date Approved: November 8, 2007
Total Amount Approved: $2,000.00
Total Amount Expended: $2,000.00

Summary:

A grant of $2,000.00 was approved for an outdoor education program focusing on trapping, hunting and fishing while integrating traditional knowledge and skills from Elders and local trappers. The course is intended to be recognized as one credit in the senior year's curriculum and will involve lessons in life skills, cultural awareness, social and survival skills and nature's environmental needs for existence.

MANURE MANAGEMENT CONFERENCE 2007

Proponent: Manitoba Agriculture, Food and Rural Initiatives
Date Approved: July 10, 2007
Total Amount Approved: $10,000.00
Total Amount Expended: $10,000.00

Summary:

An allocation of $10,000.00 was approved for a conference to engage producers and the public to become better informed on the issues of environmental sustainability and to identify various measures producers are implementing to address these issues. Conference delegates will be informed of the latest developments in the understanding of and management practices for manure management and environmental risk reduction. Topics include innovative manure management technologies, in-field risk assessment, watershed management planning, greenhouse gas emissions and their mitigation, manure phosphorus risk to surface water and its mitigation, as well as case studies and experiences from other jurisdictions.

MANITOBA ACID RAIN IMPACTS ASSESSMENT

Proponent: Manitoba Conservation, Air Quality Management
Date Approved: September 28, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

An allocation of $25,000.00 was approved for an ecological study to determine whether acidic deposition from man-made sources is impacting Manitoba's natural ecosystems and to what extent. Research will focus on water quality sampling of small head-water lakes on the east side of Lake Winnipeg and examining soils in selected areas of the province where impacts may be occurring. The project seeks to examine the potential impacts that releases to the air from Manitoba's two base metal smelters in Flin Flon and Thompson may be having on Manitoba's ecosystems, and will address areas such as lake surveys for atmospheric deposition critical load determination, soil sensitivity re-mapping and impacts to air quality.

MONITORING KILLER AND BELUGA WHALES

Proponent: University of Manitoba, Fisheries and Oceans Canada
Date Approved: March 20, 2008
Total Amount Approved: $10,000.00
Total Amount Expended: $10,000.00

Summary:

A grant of $10,000.00 was approved for the second year of a study to determine the possible effects of increased predation pressure on beluga behaviour and long-term population health. In 2007, areas near Churchill were monitored for killer whale and beluga vocalizations, as well as possible predation events. In 2008, monitoring of the Nelson River estuary will be initiated. Killer whale vocalizations will be identified and possible effects of killer whales on communication, behaviour and movements of belugas will be examined. Baseline acoustic information will be collected and past and future sighting data will be used to estimate abundance, seasonal distribution, movements, behaviour and possible predation effects on marine mammal prey species. Results of the study will assist in developing management options to protect populations from increased predation pressures and eco-tourism operations.

NIGHT OF THE LIVING PRAIRIE INTERACTIVE EXHIBIT

Proponent: Living Prairie Museum
Date Approved: September 28, 2007
Total Amount Approved: $10,844.00
Total Amount Expended: $10,844.00

Summary:

A grant of $10,844.00 was approved for an interactive exhibit to provide visitors insight into the prairie night life. New technological audio/visual displays will be made available to help visitors gain a better understanding and appreciation for the wildlife and natural phenomena seen and heard during the tour of the exhibit. As part of the exhibit, habitat enclosures will be updated for live animals and a boardwalk will be constructed to create a better viewing platform of the prairie diorama. As well, environmental educational programming will be developed.

PIMACHIOWIN AKI WORLD HERITAGE PROJECT – FIRST NATIONS LEARNING EXCHANGE

Proponent: Pimachiowin Aki Corporation
Date Approved: September 28, 2007
Total Amount Approved: $10,000.00
Total Amount Expended: $10,000.00

Summary:

A grant of $10,000.00 was approved for a learning exchange for members of the Pimachiowin Aki partnership and Manitoba First Nations to meet with World Heritage experts and visit other Canadian World Heritage sites. Participants are expected to obtain firsthand experiences and information about "lessons learned" elsewhere to better understand the requirements for successful nominations and to identify the needs and opportunities that may result from a World Heritage Site designation. Exchange participants will participate in discussions with managers and local area First Nations and individuals in Alberta, and representatives from other jurisdictions will participate in meetings in Winnipeg and local communities.

PLUG IN HYBRID ELECTRIC VEHICLE CONFERENCE 2007

Proponent: University of Manitoba, NSERC/Manitoba Hydro Alternative Energy Industrial
Date Approved: September 28, 2007
Total Amount Approved: $10,000.00
Total Amount Expended: $10,000.00

Summary:

A grant of $10,000.00 was approved for the first major conference on Plug-In Hybrid Vehicle (PHEV) technology development in November 2007. The forum brought together industry, academia, utilities, governments and institutions to discuss opportunities and challenges that PHEV presents for sustainable transportation, including creating a network of Canadian researchers focusing on PHEV and PEV related issues, reviewing PHEV and PEV research and demonstrations throughout North America, optimizing the effective use of renewable sources of advanced vehicles, understanding how PHEV can be integrated into current and future transportation systems and the electrical power grid, and developing a PHEV bus demonstration project using B100 as part of the Plug-in Highway program. PHEV is an emerging and promising technology. Additional information is found on the conference website at www.pluginhighway.ca.

PRAIRIE BIRDS IN SOUTHWESTERN MANITOBA

Proponent: University of Manitoba, Natural Resources Institute
Date Approved: July 10, 2007
Total Amount Approved: $19,000.00
Total Amount Expended: $19,000.00

Summary:

A grant of $19,000.00 was approved for a two-year study of grassland birds and associated vegetation in Wildlife Management Areas (WMA) and non-native prairies in southwestern Manitoba to determine how protected areas and private lands contribute to the conservation of grassland birds. Grassland bird populations have declined across North America in recent decades, with the loss and degradation of native habitat as the most likely causes of these declines. Remaining grasslands in southwestern Manitoba are represented by a combination of native and non-native vegetation, and within this area, are designated WMA sites. Although WMAs constitute a small proportion of remaining grasslands, they offer protection from development, which may have a significant impact on long-term persistence of the grassland bird community.

PRAIRIE UNIVERSITIES BIOLOGICAL SYMPOSIUM 2008

Proponent: University of Manitoba, Prairie Universities Biological Symposium
Date Approved: December 21, 2007
Total Amount Approved: $1,000.00
Total Amount Expended: $1,000.00

Summary:

A grant of $1,000.00 was approved for the 42nd Prairie Universities Biological Symposium in February 2008. This annual conference is organized by students of the host prairie university. Students from other universities across the Canadian and American prairies are invited to make presentations on research on a variety of topics. The symposium provides opportunities to exchange ideas among young scientists, to gain conference experience, and to develop communication skills.

REVITALIZING OUR TRADITIONAL PRACTICES

Proponent: Assembly of Manitoba Chiefs Secretariat Inc.
Date Approved: March 20, 2007
Total Amount Approved: $5,000.00
Total Amount Expended: $5,000.00

Summary:

A grant of $5,000.00 was approved for a conference to bring together First Nations people to discuss issues related to the natural environment, health, and how traditional practices play a historical key role in balancing these issues for overall holistic health. Cultural relevance and promotion of traditional ways will be the focus of the conference. Discussions on the importance of traditional practices and ways to revive these practices for good health and a better way of life will be held.

THE LITTLE EARTH CHARTER

Proponent: Little Animation Inc.
Date Approved: July 10, 2007 and September 28, 2007
Total Amount Approved: $12,500.00
Total Amount Expended: $5,000.00
Total Amount Projected: $7,500.00 (FY 2008/2009)

Summary:

A grant of $12,500.00 was approved to produce "Little Earth Charter," an animated audio-visual product that incorporates the principles of the original Earth Charter for children aged four to eight. The Earth Charter is a set of fundamental principles that seek to define a just, sustainable and peaceful society for the 21st century, and has been endorsed by those who share a common concern for preserving the quality of life. This initiative will take the adult version of the Earth Charter to produce an early years' version for children. The "Little Earth Charter" version will consist of eight four minute animated clips, with each clip focusing on one of the eight principles of the Little Earth Charter: life, interconnectedness, family, past, earth, peace, love and future. A teacher's guide will also be developed.

TRADITIONAL ECOLOGICAL KNOWLEDGE SHARING PARTNERSHIP

Proponent: Bloodvein River Lodge
Date Approved: March 20, 2008
Total Amount Approved: $10,000.00
Total Amount Expended: $10,000.00

Summary:

A grant of $10,000.00 was approved for a youth training program to reconnect urban youth with the land by integrating traditional ecological knowledge with basic practical skills. Participating youth will assist in developing the program, while learning cultural and traditional values, as well as goal setting from a traditional perspective, and consensus decision making skills. Youth will also learn skills that will help them to maintain their traditional land skills and will be exposed to opportunities that will help guide them to explore career options.

TRADITIONAL KNOWLEDGE PROJECT

Proponent: Kakineepahwitamawat Association Inc.
Date Approved: December 21, 2007
Total Amount Approved: $10,000.00
Total Amount Expended: $10,000.00

Summary:

A grant of $10,000.00 was approved to increase knowledge of traditional practices for community members in Sagkeeng First Nation. Educators, teachers, elders, youth and community representatives will participate in the development of materials and resources on spiritual and traditional knowledge and teachings of the Anishinabe people. Information on traditional environmental knowledge, spiritual beliefs and Ojibway traditional ways of life will be collected through workshops, ceremonies, sharing circles, talking lodges in the community with elders, community members and youth. The project will merge traditional, scientific and technological information on the environment and the land.

TRAVELLING PLANTS/PRAIRIE POLLINATORS

Proponent: The Manitoba Museum
Date Approved: November 8, 2007
Total Amount Approved: $15,500.00
Total Amount Expended: $15,500.00

Summary:

A grant of $15,500.00 was approved to host two exhibits featuring native plants of Manitoba and the unique strategies that these plants use to propagate and disperse themselves. The first exhibit will be "Travelling Plants," where plants "move" to find food, water, and potential mates, and spread into new territories. The goal of this exhibit is to illustrate and interpret the ways plants are capable of "travelling" and to provide a scientific explanation for this activity. The second exhibit, "Prairie Pollinators," will showcase several grassland species with unusual pollination mechanisms. It will include the Western Prairie Fringed Orchid and Small White Lady's-slipper Orchid models, as well as other plant models that will be made especially for this exhibit. These two interrelated exhibits aim to help foster Manitoban's appreciation and understanding of their natural surrounding.

TWICE-OVER ROTATIONAL GRAZING AND BIRDS

Proponent: University of Manitoba, Natural Resources Institute
Date Approved: March 20, 2008
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved for a multi-year study to determine the economic and environmental effects of cattle grazing on prairie bird communities. The impacts associated with conserving prairie species, as well as the agricultural way of life for communities in Manitoba will be determined by comparing the differences in prairie bird communities among twice-over rotationally grazed, season-long grazed, and ungrazed prairies. Several species at risk either tolerate (e.g. Sprague's pipit) or benefit from (e.g. Baird's sparrow) well-managed grazing programs on native prairies, so understanding effects of grazing systems on birds may allow the development of economically and environmentally sustainable management practices.

TWO YOUTH FORUMS/SHOWCASES

Proponent: Science Council of Manitoba
Date Approved: July 10, 2007
Total Amount Approved: $1,000.00
Total Amount Expended: $1,000.00

Summary:

A grant of $1,000.00 was approved for two informative, integrated and motivational workshops on sustainability issues. One workshop was held in September 2007 at the University of Winnipeg, and the second was held in September 2008 at a school in western Manitoba. The workshops emphasize critical thinking, problem solving, decision making and provide for hands-on practical activities which will lead to the development of action plans to address sustainability issues, including forests/prairie, water, soils and atmosphere. The workshops, targeted to teacher/student mentored teams, are also intended to facilitate the creation of research projects of excellence for the annual Youth Stewardship in Environmental Sustainability Project Showcase, held annually at Oak Hammock Marsh Interpretive Centre.

UTILIZATION OF ANTHROPOGENIC AND NATURAL CORRIDORS BY WOLVES IN EASTERN MANITOBA, AND THE IMPACTS UPON WOODLAND CARIBOU

Proponent: Manitoba Model Forest Inc.
Date Approved: December 21, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved for a study to examine the use of natural and anthropogenic corridors by wolves, their principal prey items and the overall health and dispersion of packs in the region, as well as identify information for the continual development and refinement of woodland caribou species recovery and management plan. Roads and highways have been shown to be a limiting factor to wolf population survival, and road density is a primary concern when identifying suitable wolf habitat. However, most roads previously studied are broadly defined as those accessible to two-wheel drive vehicles. In areas where road networks are less extensive and individual roads are smaller with less traffic, roads may become travel corridors for wolves. The use of these corridors may improve wolf mobility throughout their range, and allow for increased success in hunting and a healthier wolf population. This may impact the populations of woodland caribou.

VIRTUAL SCIENCE RESOURCES LABORATORY

Proponent: Brandon University
Date Approved: November 8, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

Summary:

A grant of $25,000.00 was approved to establish a collection of virtual science teaching and learning resources for visits to schools and for touring communities throughout southwestern Manitoba. The collection of materials will support interactive, hands-on programming in science education with an emphasis on Education for Sustainable Development, where participants may explore issues ranging from sustainable agriculture practices to ecosystem conservation, freshwater resources, and community amelioration. The overall intent is to improve science teaching and learning in rural settings, to share resources, and promote excellence in science and sustainability education.

WILDERNESS SKILLS DEVELOPMENT CAMP

Proponent: Anishinaabe Child and Family Services
Date Approved: December 21, 2007
Total Amount Approved: $10,000.00
Total Amount Expended: $10,000.00

Summary:

A grant of $10,000.00 was approved for a wilderness skills development camp for youth, focusing on traditional areas of hunting, trapping, fishing and gathering. With assistance from Elders and mentors, children and youth will gain hands on experience of culture, language and traditions, instilling pride and empowerment, in addition to leadership skills, environmental awareness, and wilderness and survival skills. The five-day camp aims to teach at-risk youth from five of the Anishinaabe Child and Family Services communities the basic skills to function effectively in a wilderness environment and how traditions and values are passed on from generation to generation.

SPECIAL INITIATIVES

ALLOCATED FUNDING

DURING THE 2007/2008 FISCAL YEAR

UNDER THE SDIF OPEN CATEGORY

Number of Projects: 2

Total Amount Expended: $375,000.00

Initiative	Total Expended
Green Building Policy Coordination Unit	$121,900.00
New Scrap Tire Management Program	$253,100.00

SPECIAL INITIATIVES

DETAILS OF PROJECTS ALLOCATED

FUNDING DURING THE 2007/2008 FISCAL YEAR

GREEN BUILDING POLICY AND PROGRAM: GREEN BUILDING COORDINATION TEAM

Administered by: Green Manitoba, Manitoba Science, Technology, Energy and Mines
Date Approved: August 1, 2007
Total Amount Approved: $121,900.00
Total Amount Expended: $121,900.00

Summary:

A grant of $121,900.00 was approved to support the Green Building Policy Coordination Team in conjunction with the Interdepartmental Green Building Working Group, Energy Development Initiative and the Office of the Fire Commissioner to coordinate and facilitate the delivery and implementation of the Green Building Policy for Government of Manitoba funded projects and provide the necessary tools to help move from policy to practice. The Green Building Policy was developed to ensure that new capital projects and major renovations to existing buildings funded by the Province are designed to capture the many advantages of green buildings.

NEW SCRAP TIRE MANAGEMENT PROGAM

Administered by: Tire Stewardship Manitoba
Date Approved: September 28, 2007
Total Amount Approved: $253,100.00
Total Amount Expended: $253,100.00

Summary:

A grant totaling $253,100.00 was approved to support the establishment of a new industry-led scrap tire management program in Manitoba, to replace the former government-led program. The new program provides a financial incentive to collect and recycle Manitoba generated scrap tires, and is financed by Eco-Fees on all new tires sold in the province. Tire Stewardship Manitoba (TSM), a not-for-profit organization established by the tire industry.

For every new tire sold, a scrap tire is generated. Rather than taking up space in landfills and posing a risk to human health and the environment, scrap tires are processed and used in environmentally responsible ways. Properly managed scrap tires reduce environmental risk and create jobs and economic development in Manitoba. Scrap tires can be used in a variety of applications, including flooring for agricultural, recreational and industrial use, synthetic turf fields, rubberized asphalt, blast mats, geo-technical projects and energy recovery.

BROAD ALLOCATIONS CATEGORY FUNDING ALLOCATIONS

DURING THE 2007/2008 FISCAL YEAR

Number of Broad Allocations: 6

Total Amount Expended: $1,710,634.27

Project Name	Total Expended
Environmental Youth Corps (EYC)	$195,933.61
Manitoba Climate Change Action Fund (MCCAF)	$398,500.00
Waste Reduction and Pollution Prevention (WRAPP) Fund	$538,644.32
Water Stewardship Fund (WSF)	$346,969.78
Bear Smart Initiative	$30,586.56
Manitoba Forestry Association Woodlot Program	$200,000.00

BROAD ALLOCATIONS CATEGORY

DETAILED LISTING OF PROJECTS ALLOCATED

FUNDING DURING THE 2007/2008 FISCAL YEAR

ENVIRONMENTAL YOUTH CORPS

Proponent: Manitoba Conservation
Date Approved: 2007/2008 Estimates Review
Total Amount Approved: $200,000.00
Total Amount Expended: $195,933.61

Summary:

The Environmental Youth Corps (EYC) has provided Manitoba's young people with an opportunity to prepare for the environmental challenges of tomorrow by helping them gain valuable education and experience today. EYC encourages youth to volunteer within their community for projects to improve and protect Manitoba's environment. The EYC program allows youth the opportunity to be involved in a variety of environmental activities that may otherwise not occur. The EYC program has demonstrated the government's commitment of increasing the opportunities for young people to be involved in environment-related activities. During the last seventeen years, over $3.1 million dollars has been provided to community-based projects involving over 81,000 youths. As a result, Manitoba youth have increased their appreciation and responsibility towards their environmental surroundings, as well as learned the importance of voluntary community involvement.

Environmental projects eligible for funding to a maximum of $5,000.00 include (but are not restricted to): water quality, waste minimization (recycling, composting, etc.), protection of flora and fauna, rehabilitation and conservation of the natural environment, wildlife conservation and habitat preservation.

EYC SUMMARY

Total EYC 2007/2008 Allocation	**$200,000.00**
Applications Processed	95
Applications Approved	78
Applications Declined	9
Applications Deferred	7
Applications Withdrawn	1
Number of Youth Involved	5,925
Total Amount of Grants Approved/Expended	$157,829.45
Program Administration	$38,104.16
Total Expended	**$195,933.61**

Brief descriptions of the 78 projects approved under the EYC program during the 2007/2008 fiscal year are as follows:

CENTRAL REGION

Angus McKay School received $3,150 to involve 150 students in a green space revitalization project planting crabapple, basswood and spruce trees; installing bat, wood duck, wren, and chickadee houses, as well as planting flowers beds containing native prairie grass and butterfly attractant perennials.

Arborg-Bifrost Parks and Recreation Commission received $4,000 to involve 115 youth to beautify the Town of Arborg participating in clean up activities, recycling initiatives, as well as constructing raised garden beds and planting trees and flowers.

Arthur Day Middle School received $435 to involve 20 students in a waste minimization and green space enhancement project creating butterfly gardens and building planters. Youth will also participate in previous recycling and composting activities at the school.

Bruce Middle School received $700 to involve 320 youth in a water quality monitoring project testing for pH, nitrate and phosphate levels in Sturgeon Creek, as well as observing its aquatic and insect populations.

Centre Scolaire Leo-Remillard received $1,650 to involve 200 youth in environmental education program growing fruits and vegetables for use in a nutrition class, as well as setting up various workshops, such as wood carving, photographing nature, and drawing flora and fauna.

Collicutt School received $2,100 to involve 135 students in establishing an outdoor classroom, building raised garden beds and planting a variety of vegetables, with produce being donated to Winnipeg Harvest.

Crystal Springs School, Ste. Agathe received $1,500 to involve 42 students in a community greening project planting and caring for trees. Students will assist in selecting the types of trees to be planted at each location throughout the community.

Dakota Tipi First Nation received $1,140 to involve 21 youth in a green space enhancement project planting native perennial plants, shrubs, and trees, as well as, locating interpretive signage promoting environmentally friendly landscapes.

Discovery Children's Centre Inc. received $2,300 to involve 250 youth to create a raised butterfly garden, laying bricks, spreading soil, and planting butterfly attracting perennial plants.

Dr. FWL Hamilton School received $2,900 to involve 50 youth in a schoolyard enhancement project planting perennial flowers, trees and shrubs.

École Centrale Community Council received $3,230 to involve 200 students in a green space enhancement project planting flowers, shrubs and trees to create an outdoor classroom.

Friends of the Garden, St. Claude received $2,400 to involve 125 students in a community garden project planting flowers started by seed for transplantation into theme gardens. Youth will also plant trees and shrubs, as well as maintain compost and gardens.

Glenlawn Collegiate received $700 to involve 13 students in a green space enhancement project building a picnic table and planting prairie perennials, annuals and shrubs.

Hampstead School Outdoor Education Club received $1,665 to involve 20 youth in a schoolyard enhancement project constructing and maintaining a purple martin complex, as well as installing a 24-hour monitoring camera inside the complex to view nesting activities.

Hastings School received $2,250 to involve 400 youth in a green space enhancement project, establishing a garden with butterfly attractant perennial plants, raising and releasing Painted Lady butterflies, and planting trees.

John W. Gunn Middle School received $350 to involve 30 youth in collecting and sorting recyclables, as well as collecting food scraps for vermicomposting. Compost will be used in the greenhouse for growing native prairie plants for transplantation to gardens.

Lake Manitoba Treaty 2 First Nations received $1,950 to involve 100 youth in a community awareness and education project attending environmental protection workshops and cleaning up litter and debris along the shoreline.

Linden Christian School received $350 to involve 20 students in a green space enhancement project planting trees along the perimeter of the school yard.

Living Prairie Museum received $2,595 to involve 50 youth in creating a garden with butterfly attractant plants and interpretative signage. Once complete, the first annual Monarch Festival will be held to promote environmental awareness.

Manitoba Girl Guides received $4,275 to involve 300 youth in a tree planting project at the Summit Road landfill site. Youth will plant 1,000 trembling aspen trees to help prevent soil erosion, reduce waterway contamination and support wildlife as part of the ongoing rehabilitation efforts at the site.

Manitoba Naturalists Society received $3,415 to involve 300 youth in the restoration of the Assiniboine Park Riparian Forest planting native trees and shrubs, removing invasive species, such as Common Burdock, creating a woodchip trail and locating interpretative signage.

Mallard Community Council received $3,570 to involve 19 youth in a community enhancement project building garbage bins, picking up litter and debris, and maintaining community gardens.

Matheson Island Community Council received $775 to involve 4 youth in a waste minimization and beautification project building garbage and recycling bins and planting trees and flowers.

Murdoch Mackay Collegiate Institute received $1,950 to involve 60 youth to enhance and beautify the school grounds planting trees, tending to gardens, pruning shrubs, as well as seeding and fertilizing grass.

North Interlake Environmental Youth Corp., Peguis received $2,410 to involve 11 youth from Peguis First Nation High School and Fisher Branch Collegiate in an environmental program to address environmental challenges in the river system and surrounding landscape. Soil and water samples will be taken along the Fisher River system and sample sites will be mapped. Youth will participate in tree planting and landscape beautification activities, in addition to undertaking an awareness campaign to inform the public of environmental concerns and possible solutions.

Old St. Vital Business Improvement Zone received $2,165 to involve 150 youth in a community beautification project picking up litter and debris throughout the neighbourhood, planting and maintaining flower beds, as well as hosting bike safety and maintenance workshops to encourage green transportation.

Pembina Valley Conservation District, Manitou received $3,650 to involve 65 students in a green space enhancement project planting and caring for a variety of trees, with produce from fruit bearing trees being donated to local food banks.

Point Douglas Point Resident Committee received $4,070 to involve 20 youth in a Dutch elm disease prevention project by banding trees along boulevards.

River Elm School received $1,000 to involve 12 youth an environmental beautification and education project picking up litter and debris throughout the community and developing presentations on environmental issues.

Riverview Community Centre received $2,870 to involve 30 youth in an environmental education project participating in recycling, water conservation, and air quality activities.

Selkirk Friendship Centre Inc., Selkirk received $1,135.45 to involve 2 youth in a beautification project constructing flower beds, planting trees and flowers, as well as participating in clean up activities.

Salisbury Morse Place School received $1,375 to involve 20 youth in a schoolyard enhancement project planting flowers and trees to create a park-like setting.

Silverwinds School, Sperling received $3,600 to involve 30 youth in a community greening project establishing perennial gardens, planting shrubs and native and fruit bearing trees, as well as building birdhouses.

Southwood School, Winkler received $220 to involve 100 youth in a schoolyard beautification project caring for trees shrubs and perennials, and spreading mulch.

Spence Neighborhood Association received $2,420 to involve 30 youth in an environmental education and awareness project. Youth will learn about the life cycle of plants, how to plant and grow vegetables in an urban community garden, the connections between animal/human factors in an urban environment, as well as composting, rain cycles and erosion.

Steinbach Christian High School received $1,100 to involve 26 youth in phase II of their schoolyard enhancement project planting a variety of trees and shrubs.

Stevenson-Britannia School received $1,775 to involve 245 youth in the creation of a green space constructing raised flower beds, planting perennial flowers and trees, as well as locating recycling and refuse containers.

The Rotary Club of Charleswood received $2,270 to involve 200 students in enhancing the Assiniboine Forest trail and participating in clean up events, and revegetation and stewardship initiatives.

Wellington School received $1,350 to involve 80 students in creating a garden sun dial that will be used in an outdoor classroom setting to help illustrate the relationship between the Sun and the Earth.

West Broadway Neighbourhood Housing Resource Centre received $1,240 to involve 10 youth in establishing a community garden based on the medicine wheel, as well as planting a variety of butterfly attractant perennial plants.

Youth Community Partnership, Gimli received $5,000 to involve three youth in a water conservation education project developing interactive displays, distributing informative brochures, and organizing demonstrative and participatory workshops for community residents.

Zoological Society of Manitoba received $2,500 to involve 425 youth in an environmental education project learning how to identify and care for native indigenous plants. Also, youth will be given a take home mini-greenhouse package containing a native indigenous plant, information on how to care for the plant, and a diary to track their findings.

Zoological Society received $5,000 to involve 40 youth at the Winnipeg Zoo in promoting recycling activities for the zoo and park buildings. Recycling bins will be established and maintained, signs erected and recycling brochures distributed.

EASTERN REGION

Berens River First Nations received $840 to involve 70 youth in a community and shoreline clean up project picking up litter and debris.

Greenwald Hofer School, Beausejour received $1,000 to involve 15 students in a schoolyard beautification project planting trees. Students will select trees for planting and will care for each tree planted until graduation.

Pauingassi First Nation received $1,720 to involve five youth picking up litter and debris along the shores of Fishing Lake, as well as, hosting a workshop on the effects of spring and rain runoff.

Sagkeeng Employment and Training Services, Fort Alexander received $1,000 to involve 10 youth in a waste minimization project, recycling and picking up litter and debris along the shoreline.

Sagkeeng Anishinabe High School, Pine Falls received $3,225 to involve 50 youth in a community garden project planting vegetables, herbs, and butterfly attractant perennials, as well as fruit bearing trees and shrubs.

Wings of Power Inc., Pine Falls received $1,635 to involve 12 youth in the creation of a butterfly garden and the continuation of their community vegetable garden. Youth will plant butterfly attractant perennials and vegetables, with the produce being utilized in the fall for the Community Harvest Dinner.

NORTHEAST REGION

City of Thompson – Recreation, Parks and Culture received $1,000 to involve 60 youth in environmental educational activities focusing in recycling, composting, water conservation, endangered species, and climate change through its EcoAdventure Camp. Youth will also participate in a community clean up and locating garbage containers.

Granville Lake Community Council received $2,710 to involve 20 youth in a community beautification project planting trees, picking up litter and debris and building and locating refuse containers, birdhouses and flower pots.

God's Lake Narrows Community Council received $2,520 to involve 10 youth in a community beautification project picking up litter and debris along the roadside and shoreline.

Thompson Boys and Girls Club received $2,350 to involve 15 youth in a shoreline clean up project picking up litter and debris in Paint Lake Provincial Park.

NORTHWEST REGION

Misipawistik Cree Nation Health Authority, Grand Rapids received $2,310 to involve 20 youth in creating a community recycling and composting program and establishing a community garden.

Opaskwayak Cree Nation – Youth Centre received $3,155 to involve five youth in a stream erosion prevention project planting trees and applying rip rap.

WESTERN REGION

Barrows Community Council received $350 to involve 25 youth in a town beautification project constructing flower pots, planting flowers, and picking up litter and debris throughout the community.

Camperville Community Council received $600 to involve 10 youth in a community beautification project constructing flower beds, planters and refuse containers.

Crane River Recreation Committee received $1,000 to involve 20 youth in a community beautification project picking up litter and debris throughout the community.

Crocus Plains Regional Secondary School, Brandon received $2,850 to involve 60 youth in rehabilitating a marsh area planting native grass and wildflower species.

Dauphin Joint Recreation Commission received $750 to involve 20 youth in revitalizing Vermillion Park spreading soil and clearing debris from the trail, planting and maintaining flower beds, as well as promoting recycling.

Dauphin Joint Recreation Commission received $2,700 to involve 20 youth in reforesting Vermillion Park identifying and replacing diseased trees, spreading topsoil and planting grass seed.

Elkhorn School Advisory Council, Elkhorn received $1,000 to involve 130 youth in beautifying the schoolyard planting evergreen shrubs and installing signage.

Gambler First Nation, Binscarth received $2,460 to involve 10 youth in beautifying the community through picking up litter and debris, as well as planting trees.

Green Acres Colony School, Wawanesa received $1,400 to involve 15 youth in planting trees, establishing nature trails and building birdhouses.

Hamiota Conservation Authority received $1,850 to involve 10 youth in a community enhancement project extending the existing Rails to Trails pathway, as well as planting trees, grass and shrubs.

Henderson Elementary School, Dauphin received $2,000 to involve 250 youth in the establishment of a shelterbelt planting trees, including Scotch pine and Tower poplar.

Kola School received $1,500 to involve 50 students in a schoolyard enhancement project planting a variety of flowers and shrubs to create an outdoor classroom.

Meadow Portage Recreation Commission received $1,000 to involve 10 youth in a community beautification project picking up litter and debris, locating interpretative signage along nature trails and undertaking recycling initiatives.

Nature Valley School, Wawanesa received $1,394 to involve 12 students in the construction of a flower pot bench, consisting of an eight foot flower tree that will hold up to 50 flower containers. Students will also take part in recycling and composting activities in areas around the community.

Rock Ridge Youth Committee received $1,000 to involve 30 youth in a community beautification project picking up litter and debris.

Rolling River First Nation, Erickson received $2,220 to involve 20 youth in creating a green space planting trees and shrubs, seeding grass, and building birdhouses, benches, gardens and walkways.

Rural Municipality of Woodworth, Kenton received $3,160 to involve 10 youth in a community enhancement project creating a recycling awareness video, developing promotional materials for their recycling program, building compost and recycling bins, picking up litter and debris, building and locating birdhouses, and planting perennials.

Sandy Bay Health Centre, Marius received $2,150 to involve 200 youth in a waste minimization project recycling and picking up litter and debris throughout the community.

Spence Lake Recreation Committee received $1,000 to involve six youth in a community beautification project picking up litter and debris, building birdhouses, and caring for flower gardens and trees.

Ste. Rose Recreation Commission received $2,530 to involve 10 youth in a walking trail enhancement and expansion project clearing brush and debris, and transplanting trees.

Town of Minitonas received $5,000 to involve 250 youth students in a green space enhancement project planting and caring for a variety of trees, as well as creating a nursery to grow and store trees for future planting.

Town of Virden received $450 to involve 10 youth in an orchard revitalization project tending to fruit trees, watering, staking, spreading mulch, under the supervision of a certified arborist.

Virden Junior High received $1,500 to involve 12 youth in a schoolyard enhancement planting native trees and flowers, as well as building and locating a recycling bin, humming bird feeders and birdhouses.

MANITOBA CLIMATE CHANGE ACTION FUND

Administering Department: Manitoba Science, Technology, Energy and Mines - Climate and Green Initiatives Branch
Date Approved: 2007/2008 Treasury Board Estimates Review Process
Total Amount Approved: $400,000.00
Total Amount Expended: $398,500.00

Summary:

The Manitoba Climate Change Action Fund (MCCAF) continues to be effective in supporting community groups and increasing public awareness in support of climate change initiatives and actions to reduce greenhouse gas (GHG) emissions in keeping with the Government's climate change commitments. Practical, Manitoba-based actions that respond to the issue of climate change were supported.

During 2007/2008, the process to transition the MCCAF towards longer-term programming for community groups in the context of a redesigned program with an enhanced focus on increasing public awareness, as well as a focus on community-based transportation, agriculture and northern initiatives was initiated. The redesigned program will continue to provide nominal grant assistance for individual projects through a small open category; and the MCCAF's annual allocation will be largely committed to longer-term priority projects supporting actions to reduce GHG emissions, in the following priority areas: Province-wide Public Awareness, Urban Transportation Initiatives, Rural Climate and Agriculture Initiatives and Northern Local Food Initiatives.

The priority areas MCCAF considered for support in the 2007/2008 fiscal year included projects focusing on public education and outreach and the scientific understanding of climate change impacts and potential adaptation practices.

MCCAF SUMMARY

Total Allocation for 2007/2008	**$400,000.00**
Applications Processed	10
Applications Approved	9
Applications Deferred	1
Applications Declined	0
Applications Withdrawn	0
Total Amount for Grants Approved	$398,500.00
Total Amount Expended	$398,500.00

Brief descriptions of the 9 projects approved under the Manitoba Climate Change Action Fund during the 2007/2008 fiscal year are as follows:

EDUCATION AND OUTREACH

CLIMATE CHANGE CONNECTION PHASE VI

Proponent: Manitoba Eco-Network Inc.
Date Approved: June 5, 2007
Total Amount Approved: $300,000.00
Total Amount Expended: $100,000.00

A total grant of $300,000.00 was approved in 2007 ($100,000.00 annually over three fiscal years from 2007/2008 to 2009/2010) to enable Manitoba Eco-Network to continue in its role as host to Manitoba's climate change public education and outreach hub, the Climate Change Connection (C3). C3 was originally established as part of a national network of hubs responsible for climate change public education and outreach coordination. The enhanced support for this project allowed C3 to continue to act as a clearinghouse of climate change information, coordinate climate change outreach and build awareness and promote individual and community actions to reduce greenhouse gas (GHG) emissions and make the changes necessary to live more sustainable and climate-friendly lifestyles.

2007 MANITOBA ENVIROTHON

Proponent: Manitoba Forestry Association
Date Approved: March 26, 2008
Total Amount Approved: $4,000.00
Total Amount Expended: $4,000.00

A grant of $4,000.00 was approved to organize and host the 2007 Manitoba Envirothon, an annual environmental education competition for high school. The content and focus of the event differs each year; however, it remains focused around current environmental themes. Teams of five students study curriculum-based environmental resource material with their teacher/advisors and compete in a provincial championship. The winning team subsequently represents Manitoba at the North American "environmental academic Olympics", the Canon Envirothon. Over 30 teams now compete annually in Manitoba and it is estimated that over 500,000 students participate each year throughout North America at the Provincial and State level.

2008 MANITOBA CLIMATE CHANGE CONFERENCE AND EARTH FORUM

Proponent: Manitoba Ozone Protection Industry Association (MOPIA)
Date Approved: March 26, 2008
Total Amount Approved: $5,000.00
Total Amount Expended: $5,000.00

A grant of $5,000.00 was approved to coordinate a two-day climate change conference that included a free evening public media forum on Earth Day 2008, intended to be a central venue for climate change practitioners to share their expertise and for delegates to learn and interact. Objectives for the event included educating and building awareness of climate change issues among participants, providing a vehicle for the media and public to learn about climate-friendly technology and innovation, and hosting a summary session focusing on achievable goals and potential actions by various sectors within the province.

BUILDING A CARBON-LITE COMMUNITY

Proponent: Fort Whyte Alive
Date Approved: March 26, 2008
Total Amount Approved: $24,500.00
Total Amount Expended: $24,500.00

A grant of $24,500.00 was approved to update and enhance climate change exhibits and to launch the Carbon-Lite Communities program. An updated and enhanced interactive climate change exhibit and newly-programmed web-based information will provide opportunities for the community to participate in this project both on and off site. The Carbon-Lite program aims to serve students, Fort Whyte members, visitors and the greater community of Manitoba, and will encourage individuals to embrace a carbon-lite lifestyle through a membership program offering unique incentives that will benefit both them and the environment.

IMPACTS AND ADAPTATION

GHG REDUCTION THROUGH ACTIVE, SUSTAINABLE TRANSPORTATION

Proponent: Resource Conservation Manitoba (RCM)
Date Approved: June 5, 2007
Total Amount Approved: $300,000.00
Total Amount Expended: $100,000.00

A total grant of $300,000.00 was approved in 2007 ($100,000.00 annually over three fiscal years from 2007/2008 to 2009/2010) to undertake various strategic GHG reduction initiatives for Manitobans. Building upon previous successes in community-based transportation initiatives with programs such as the Commuter Challenge and the Active and Safe Routes to School (ASRTS), RCM will identify and recruit champion workplaces for its urban trip reduction programming and will also look to increase the number of Manitobans who participate by creating promotional materials and education resources for the Commuter Challenge, Workplace Transportation Demand Management (WTDM), Manitoba Student Transportation Network (MSTN), and the Active and Safe Routes to School (ASRTS) Programs. In addition, RCM will be expanding its efforts to include more schools and communities throughout Manitoba.

NORTHERN MANITOBA FOOD SELF-SUFFICIENCY PROJECTS

Proponent: Manitoba Aboriginal and Northern Affairs
Date Approved: June 5, 2007
Total Amount Approved: $225,000.00
Total Amount Expended: $75,000.00
Total Amount Projected: $150,000.00 (over FY's 2008/2009 and 2009/2010)

A total allocation of $225,000.00 was approved to support the first year of a three year project to develop a broad range of food self-sufficiency projects in remote communities to effectively decrease dependence on air freight shipments of food, thereby reducing GHG emissions. Proposed projects included Northern Greenhouses, to develop and implement a graduated series of Northern-appropriate, "approaching net zero" greenhouses in remote communities, particularly those that have the highest energy saving possibilities; Airships, to enhance Aboriginal and Northern Affairs' ongoing commitment to support efforts to bring heavy lifting (freighting airship technology) to Northern Manitoba; and Institutional "Nutritious Direct Buy" System Development Project, to implement a local wild food purchasing program for northeastern Manitoba schools and health centres.

ACTIVE/PUBLIC TRANSPORTATION HUB

Proponent: University of Winnipeg
Date Approved: March 26, 2008
Total Amount Approved: $15,000.00
Total Amount Expended: $15,000.00

A grant of $15,000.00 was approved to develop preliminary designs and Class "C" construction estimates for the University of Winnipeg's Active Public Transportation Hub. The Hub will provide public transit users, cyclists and pedestrians a central point of contact and information, waiting areas, secure bicycle storage, lockers repair facilities and other amenities. The Active Transportation Hub plans to be a center for public transportation access on campus connecting to transit with "real-time" transit information and ancillary information.

MANITOBA ORGANICS TRANSITION PROGRAM

Proponent: Manitoba Agriculture, Food and Rural Initiatives
Date Approved: June 5, 2007
Total Amount Approved: $150,000.00
Total Amount Expended: $50,000.00
Total Amount Projected: $100,000.00 (FY 2008/2009 and 2009/2010)

A total allocation of $150,000.00 was approved to support year one of a three-year project to provide financial incentives for Manitoba farmers and processors considering converting their cropland, pasture, livestock and/or processing to certified organic status. The incentives will provide a portion of the certification costs for the producer or processor during the three-year transition period. An increase in organic production reduces energy use relative to conventional production; converting to organic production can reduce CO_2 output two to two and a half times more and reduce by 2.2 to 2.8 times the energy required by conventional agricultural practices.

LOCAL FOOD MARKETING

Proponent: Manitoba Agriculture, Food and Rural Initiatives
Date Approved: June 5, 2007
Total Amount Approved: $75,000.00
Total Amount Expended: $25,000.00
Total Amount Projected: $50,000.00 (FY 2008/2009 and 2009/2010)

A total allocation of $75,000.00 was approved to support year one of a three year project to create and launch a "Buy Local" campaign for Manitoba food products. The goals and objectives of the program include identifying what Manitobans perceive as appropriate terminology through consumer research, using consumer research to guide the definition used for 'local' within the program, increasing awareness of Manitoba food products available in the province and increasing consumption of Manitoba food products by Manitobans. The project has the potential to benefit the environment, through reductions of GHG emissions in the agriculture and transportation sectors, as well as benefiting consumers, producers, processors and Manitoba communities.

WASTE REDUCTION AND POLLUTION PREVENTION (WRAPP) FUND

Proponents Are: Manitoba Conservation, Pollution Prevention Branch
Date Approved: 2007/2008 Treasury Board Estimates Review Process
Total Amount Approved: $550,000.00
Total Amount Expended: $538,644.32

Summary:

The WRAPP Fund continues to be an integral program for supporting waste reduction and pollution prevention activities in Manitoba, as Municipalities, businesses and community and other organizations continue to seek alternative ways to protect the environment and deal cost effectively with waste products and materials.

The WRAPP Fund supports projects in the following priority areas: construction and demolition waste management, composting, institutional waste reduction, market development, pollution prevention, integrated waste management system development and planning, promotion and education, parks projects, regional recycling, and green procurement. Financial partnerships are encouraged. In addition, the WRAPP Fund provides for an annual budget of $100,000.00 for program development. The WRAPP Development budget continues to support development and implementation of key program areas including, Organic Waste Management, Ozone Depleting Substances, Product Stewardship/Extended Producer Responsibility, Enhanced Community Recycling Systems and Regional Waste Management Initiatives, Household Hazardous Waste, Water and Energy Conservation, Pollution Prevention and Greening Government Activities.

WRAPP FUND SUMMARY

Total Allocation for 2007/2008	**$550,000.00**
Applications Processed	22
Applications Approved	15
Applications Deferred	1
Applications Declined	6
Applications Withdrawn	0
Total Amount for Grants Approved	$451,860.00
Total Amount for Grants Expended	$451,860.00
Program Development	$86,784.32
Total Expended	**$538,644.32**

Brief descriptions of the 15 projects within the priority WRAPP Fund areas are as follows:

COMPOSTING AND ORGANIC WASTE MANAGEMENT

BACKYARD COMPOSTER SALE 2007

Proponent: City of Winnipeg
Date Approved: July 10, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

A grant of $25,000.00 was approved to support the City of Winnipeg's Water and Waste Department's 2007 back yard composter sale. The event took place on May 26th, at four city locations. Earth Machine composter units were sold at a subsidized price of $25 each. Each location had 1,000 units available as well as 10 staff available to assist the public. Promotional displays and composter units were available for television and radio give-away.

SNAC WASTE REDUCTION AND COMPOST EDUCATION INITIATIVE

Proponent: St. Norbert Arts Centre (SNAC)
Date Approved: July 10, 2007
Total Amount Approved: $10,000.00
Total Amount Expended: $10,000.00

A grant of $10,000.00 was approved to increase awareness of benefits of composting, continue the St. Norbert Arts Centre's (SNAC) organic waste pick-up service and provide an organic drop-off service on site. SNAC demonstrated a variety of composting methods at its site in St. Norbert. The organization partnered with the St. Norbert Foundation to create a community garden and community compost site. They also planned to hold composting workshops at local schools.

COMPOSTING FOR COMMUNITY

Proponent: Spence Neighbourhood Association Inc.
Date Approved: March 20, 2008
Total Amount Approved: $15,000.00
Total Amount Expended: $15,000.00

A grant of $15,000.00 was approved to expand composting efforts throughout the Spence neighbourhood. The project aims to demonstrate to local businesses that composting is feasible and can result in economic benefit. Compost demonstration sites will be established in eight community gardens and local businesses will be encouraged to participate in the *Composting for Community* initiative. It is proposed that compostable kitchen waste from restaurants will be captured to produce compost for the community gardens, residences and possibly for sale. A plan for compost collection from restaurants with economic incentive for participation will be created specific to the Spence neighbourhood, and will be shared with other communities to be adapted for their own use. To further divert organics from the waste stream, compost pails will be provided to community members in rental accommodations.

TAKE FIVE: COMMUNITY COMPOSTING INITIATIVE

Proponent: West Broadway Development Corporation
Date Approved: March 20, 2008
Total Amount Approved: $15,000.00
Total Amount Expended: $15,000.00

A grant of $15,000.00 was approved to create and deliver a community composting program, under the Association's "Greening the Way" Strategy in the West Broadway area of Winnipeg. A series of actions and initiatives intended to improve the environmental sustainability of the West Broadway neighbourhood will be implemented. As a component of the "Greening the Way" strategy, a Take 5 composting initiative will be created and delivered as a comprehensive and convenient community composting program incorporating innovative methods in establishing a self-sustaining composting program for area residents, businesses, schools, and organizations.

CONSTRUCTION AND DEMOLITION WASTE

POLLUTION PREVENTION THROUGH MATERIAL RECLAMATION

Proponent: University of Manitoba, Department of Architecture
Date Approved: March 20, 2008
Total Amount Approved: $15,000.00
Total Amount Expended: $15,000.00

A grant of $15,000.00 was approved to support a project to reuse material from the abandoned century-old Crystal River schoolhouse for use in an interpretive trail in the Town of Clearwater. In conjunction with re-using material, architecture students from the University of Manitoba, Faculty of Architecture will be taught to design using reclaimed materials. The Harvest Moon Society, the community of Clearwater, and the University are collaborating on this project.

INFORMATION AND EDUCATION

WHAT TO DO WITH ORGANICS IN MANITOBA?

Proponent: University of Manitoba, Natural Resources Institute
Date Approved: March 20, 2008
Total Amount Approved: $15,000.00
Total Amount Expended: $15,000.00

A grant of $15,000.00 was approved to review composting and waste diversion policies for organics in other provinces and key municipal regions. The information is intended to assist in developing criteria to determine best management practices to divert organic waste from landfills. Community workshops will be held to discuss options and the viability of various strategies to manage organics. As well, a survey will be conducted to determine the percentage of organic material contained in Manitoba landfills and methane emissions produced.

PLASTIC BAG ROUND-UP CHALLENGE FOR MANITOBA SCHOOLS

Proponent: Take Pride Winnipeg!
Date Approved: March 20, 2008
Total Amount Approved: $8,000.00
Total Amount Expended: $8,000.00

A grant of $8,000.00 was approved to promote and hold a plastic bag round-up in Manitoba schools. The *Plastic Bag Round-up Challenge* will challenge 5,000 students in Winnipeg and in other Manitoba communities to collect 1,000 bags each from the school, school yard, local community and home. The education and outreach component of the project will also target the families of students to recycle stock-piled plastic bags and reduce plastic bag use. More than one million bags are expected to be collected and diverted from landfill. Collected bags will be recycled into prizes that will be handed out after round-up to all the participating schools. A communications and marketing plan will be given to schools and activities provided to students.

SCHOOL-TRAC – WASTE MANAGEMENT DATA TRACKING PILOT PROJECT

Proponent: Emerge Knowledge Design Inc.
Date Approved: December 21, 2007
Total Amount Approved: $15,000.00
Total Amount Expended: $15,000.00

A grant of $15,000.00 was approved to develop School-TRAC, a web-based tool that will be used to track all solid waste and recycling efforts at each school throughout the St. James-Assiniboia school division. In addition to recycling rates, cost information will also be gathered in an effort to better understand the collection efforts in the division. Emerge is developing Eco School, a site that will allow students to view waste and recycling collection data from all schools within the division and have the opportunity to view analytical reports used to track waste and recycling efforts.

COORDINATION OF WASTE, ENERGY AND WATER EDUCATION AND OUTREACH FOR SCHOOLS AND THE PUBLIC

Proponent: Green Manitoba
Date Approved: December 21, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

An allocation of $25,000.00 was approved to provide educational materials on waste reduction, water and energy conservation to Manitoba K-12 schools, as well as to the public. Green Manitoba plans to implement expanded public and youth targeted activities in Winnipeg and other areas of Manitoba. Existing partnerships will be reinforced, new relationships developed and innovative approaches taken to effectively deliver or enable increased awareness, knowledge, understanding and action among the general public and youth.

WASTE REDUCTION SERVICES

Proponent: Resource Conservation Manitoba (RCM)
Date Approved: July 10, 2007
Total Amount Approved: $150,000.00
Total Amount Expended: $150,000.00

A grant of $150,000.00 was approved to carry out Waste Reduction Services, including Community Action on Composting (CAC) Program, Environmental Speakers Bureau, Waste Reduction Week activities and promotion, and provision of Environmental Information Services. Knowledge of waste reduction and composting will be expanded by reaching out to schools, households, home gardeners, community gardeners, sustainability coordinators, municipalities, provincial departments, agricultural producers, and community decision-makers through workshops, displays, presentations, demonstrations, community events, promotional materials, an info-line and website.

MANITOBA RESIDENTIAL WASTE AUDIT PROGRAM

Proponent: Multi Material Stewardship Manitoba (MMSM)
Date Approved: July 10, 2007
Total Amount Approved: $50,000.00
Total Amount Expended: $50,000.00

A grant of $50,000.00 was approved to conduct waste audits that will provide reliable information on the amounts and composition of all waste materials generated in various settings in Manitoba. A waste audit will provide up-to-date, reliable information on the amounts and composition of all waste materials generated in various settings in Manitoba. This information is vital to understanding waste generation rates, identifying waste diversion opportunities, establishing recovery targets, and evaluating program success.

REGIONAL RECYCLING

RECYCLE BINS IN THE VILLAGE OF MIAMI

Proponent: Miami Minor Ball Committee
Date Approved: July 10, 2007
Total Amount Approved: $360.00
Total Amount Expended: $360.00

A grant of $360.00 was approved to place and service recycle bins in prominent areas that are publicly accessible, primarily the Town's seven baseball diamonds. During the winter, the bins will be placed indoors at the hockey arena, curling rink, and community centre.

LAKE METIGOSHE RECYCLING FACILITY

Proponent: Lake Metigoshe Improvement Association
Date Approved: March 20, 2008
Total Amount Approved: $5,000.00
Total Amount Expended: $5,000.00

A grant of $5,000.00 was approved to aid in the construction of a building to house the recycling program at the nuisance grounds in Lake Metigoshe.

VIRDEN AND AREA RECYCLING

Proponent: Town of Virden
Date Approved: March 20, 2008
Total Amount Approved: $3,500.00
Total Amount Expended: $3,500.00

A grant of $3,500.00 was approved to aid in the construction of a new recycling building and compound adjacent to the public works shop. The intent of the project is to increase the Town's storage capacity for its recycling program and to demonstrate the 3Rs. The Town intends to use some recycled materials in the building, as well as crushed glass for road base.

WASTE REDUCTION AND POLLUTION PREVENTION

MANITOBA E-WASTE ROUND-UP

Proponent: Green Manitoba
Date Approved: March 22, 2007
Total Amount Approved: $100,000.00
Total Amount Expended: $100,000.00

An allocation of $100,000.00 was approved to coordinate a series of collection events (depots) for electronic waste (E-waste) collection and recycling in six regions of Manitoba. Depot collection began in May 2007 and carried on throughout the summer months.

PROGRAM DEVELOPMENT

An allocation was approved for WRAPP Program Development in fiscal year 2007/2008.

In 2007/2008, the WRAPP Fund expended $86,784.32 supporting the following activities:

- Product Stewardship Program and Regulation Development
- Canadian Council of Ministers of the Environment (CCME) Pollution Prevention Awards Program and Promotion
- Canadian Pollution Prevention Roundtable sponsorship
- Administration of the SDIF
- Professional development and training
- Research
- Workshop support

WATER STEWARDSHIP FUND

Managing Department: Manitoba Water Stewardship
Date Approved: 2007/2008 Estimates Review
Total Amount Approved: $350,000.00
Total Amount Expended: $346,969.78

Summary:

The Water Stewardship Fund (WSF) continues to be an integral program for supporting initiatives that maintain or improve the stewardship of Manitoba's water. The WSF supports research, projects and activities that further the goals of *The Water Protection Act*; and encourages the development and implementation of watershed management plans, water conservation programs and water quality initiatives; to stimulate economic development and diversification that will improve the quality of life and the environment in Manitoba. Water plays a critical role in Manitoba as it supports a healthy environment and affects the economic and social well-being of all Manitobans. Manitoba is committed to preserving Manitoba's rivers, lakes and wetlands and works to promote the importance of having quality water for people, the environment and the economy.

The WSF supports projects that contribute to maintaining the quality and quantity of water, wetlands, riparian areas and aquatic habitats in Manitoba and supports projects addressing the following priority program areas: watershed management planning and implementation, water-related scientific research, education and capacity building, water conservation, water quality, and economic development. In addition, the WSF supported a sub-allocation of $36,000.00 for the Zebra Mussel Program, as Manitoba remains vulnerable to invasion by zebra mussels and other aquatic invasive species (AIS).

WATER STEWARDSHIP FUND SUMMARY

Total Allocation for 2007/2008 Water Stewardship Fund	**$350,000.00**
Applications Processed	38
Applications Approved	19
Total Amount for Grants Approved	$314,084.63
Total Amount for Grants Expended	$312,916.04
Zebra Mussel Program	**$34,053.74**
Total - Water Stewardship Fund	**$346,969.78**

A brief description of the 19 projects funded under the Water Stewardship Fund, and the Zebra Mussel Program follows:

EDUCATION AND CAPACITY BUILDING

2008 WATER SURVEY FOR GRINDSTONE PARK COTTAGE DEVELOPMENTS

Proponent: Save Our Lake (SOUL) Grindstone Cottage Owners Association
Date Approved: February 21, 2008
Total Amount Approved: $1,280.00
Total Amount Expended: $1,280.00

A grant of $1,280.00 was approved to conduct a water use survey of cottage owners in the Grindstone cottage area and for the development and distribution of educational material. The data will be used to encourage individuals to make eco-friendly decisions and implement positive changes in cottage development areas. The survey will collect data on water use consumption and habits and waste water disposal means, and results will be printed in the Grindstone Cottage Owners Association (GCOA) Gazette Newsletter and shared with government agencies. Educational and motivational tools will be developed and distributed to promote the adoption of environmentally sound water-use practices.

LAKE WINNIPEG WATER STEWARDSHIP – MIDDLE AND SENIOR YEARS EDUCATION PROJECT

Proponent: Gimli High School, Evergreen School Division
Date Approved: September 4, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

A grant of $25,000.00 was approved to develop curriculum materials to support Grade 12 Interdisciplinary Science and Grade 8 Watershed Science courses. Materials will incorporate local information and result in the development of resources that support the teaching of science in Manitoba and provide students with an understanding of the ecology of the Lake Winnipeg Watershed and the major sustainability issues it faces. Support will be provided to encourage students to become involved in activities such as working with experts to gather and interpret scientific data, individual and group research, effective communication of their learning, participation in student exchanges with other high schools in the watershed, and undertaking actions to foster stewardship of the watershed. There will be an emphasis on hands on learning, field experiences, and exposure to ongoing scientific research activities.

MANITOBA ENVIROTHON 2008

Proponent: Manitoba Forestry Association
Date Approved: September 4, 2007
Total Amount Approved: $4,000.00
Total Amount Expended: $4,000.00

A grant of $4,000.00 was approved to support an Olympic style competition designed for high school students to help them learn about the natural environment. Team members experience the world through environmental education and hands-on activities, including current and up-to-date issues. Students study resources throughout the year and compete in the provincial event to win a chance to represent Manitoba at the North American "environmental academic Olympics" called Canon Envirothon. Envirothon promotes the development of knowledgeable, skilled and dedicated citizens who work toward sustainable development. The competitive nature of some aspects of the program affords participants an opportunity to learn, experience, and compete provincially and internationally.

MANITOBA WATER CAUCUS

Proponent: Manitoba Eco-Network
Date Approved: February 21, 2008
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

A grant of $25,000.00 was approved to help build capacity amongst non-governmental citizen groups who work on water related issues in Manitoba, by means of education, monitoring of significant events, supporting and promoting positive public engagement opportunities and bringing participants together in a variety of forums. Various activities will be undertaken, including producing more public education materials, holding a workshop on the impacts of climate change on Manitoba's water resources and updating the Water Caucus website and database, in addition to ongoing capacity building activities.

SOUTHWEST MANITOBA WATER FESTIVAL 2007

Proponent: Turtle Mountain Conservation District on behalf of Mid Assiniboine River Conservation District, Tiger Hills Conservation District and West Souris River Conservation District
Date Approved: September 4, 2007
Total Amount Approved: $6,500.00
Total Amount Expended: $6,500.00

A grant of $6,500.00 was approved to host the third annual Southwest Manitoba Water Festival in Souris, Manitoba. Approximately 400 grade 5 and 6 students from 12 schools within the four conservation districts will be invited to attend the one day educational event. Numerous activity stations with hands on activities will be established to create a unique and fun learning environment. The festival's primary objective is to educate children about water and various water related issues as an important step in creating stewards of the resource.

SUSTAINABLE DEVELOPMENT EDUCATIONAL SCIENCE EXERCISES

Proponent: Manitoba Water Stewardship, Fisheries Branch
Date Approved: August 9, 2006
Total Amount Approved: $7,000.00
Total Amount Expended: $3,916.04

An allocation of $7,000.00 was approved to support working with Manitoba Education and Manitoba teachers to develop a program and lessons for Kindergarten through Grade 4 relating to aquatics, water and habitat and the sustainability of our environment. The new course, developed in consultation with Manitoba teachers, will reflect science, technology, society, environment and the economy and will be incorporated into the science curriculum with teaching resources available through a website.

WELL HEAD ASSESSMENT AND GROUNDWATER PROTECTION PROGRAM

Proponent: Rural Municipality of Coldwell
Date Approved: September 4, 2007
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

A grant of $25,000.00 was approved to undertake a well head assessment program to accurately determine the location and condition of all well heads and identify potential groundwater contamination sources within the area of the well. Program results will inform private well owners on issues related to well construction, potential groundwater contamination sources, assist in the development of a long-term groundwater protection strategy for the community, and develop recommendations for the strategy regarding well construction improvements to existing water wells, sealing of abandoned wells, management of potential sources of groundwater contamination and surveillance and maintenance of the municipal sewage collection and pumping system. These results will be presented and discussed in a public open house.

WATER CONSERVATION

WATER CONSERVATION AND LEAK DETECTION PROGRAM

Proponent: Town of Swan River
Date Approved: February 21, 2008
Total Amount Approved: $25,000.00
Total Amount Expended: $25,000.00

A grant of $25,000.00 was approved to undertake a water conservation and leak detection program. Through the purchase and use of a pipeline leak noise correlator, the town will have the ability to determine where within the distribution system any leakage of treated water may be occurring and repair those leaks to reduce water waste. Leak repairs will also reduce any infiltration into the system which may be occurring, thus reducing potential contamination and public health risks. A public education component will also be incorporated where town residents, as well as people residing within the Swan Valley Region, will be educated in regards to the importance of lowering water consumption and infrastructure leaks. The resultant reductions in other costs for water treatment and in household water bills, as well as water losses and savings calculated through the leak detection and consumption analysis will be published for all residents. Information will be distributed via pamphlets and postings in the local paper. Water bills will also be monitored to determine the outcomes of the education component and to determine the amount of reduction in consumption.

WATER-RELATED SCIENTIFIC RESEARCH

GEOMATIC TOOL FOR RIPARIAN HEALTH ASSESSMENT IN MANITOBA WATERSHEDS

Proponent: Manitoba Habitat Heritage Corporation
Date Approved: February 21, 2008
Total Amount Approved: $23,400.00
Total Amount Expended: $23,400.00

A grant of $23,400.00 was approved to evaluate the technical feasibility of using high resolution colour orthophoto imagery and geomatics software to develop a reliable, cost-effective and repeatable GIS-based protocol for conducting riparian area health assessments on a watershed scale in agricultural areas of Manitoba. This is a new approach to riparian health assessment that seeks to provide information at a much finer scale than current assessments using satellite-based remote sensing. The primary objective is to fill a critical information gap identified by the Integrated Watershed Management Program (IWMP) initiative. The status of riparian area health is not known for most of Manitoba's watersheds, nor is there a method available to assess riparian health that is both detailed and cost-effective and that can be applied on a watershed scale.

INVESTIGATION OF THE FACTORS INFLUENCING TOXIGENIC SPECIES OF CYANOBACTERIA AND THEIR TOXINS IN LAKE WINNIPEG

Proponent: Miette Environmental Consulting Inc.
Date Approved: September 4 2007
Total Amount Approved: $24,405.00
Total Amount Expended: $24,405.00

A grant of $24,405.00 was approved to conduct a study on cyanobacterial toxins such a microcystin, compounds which are produced by various species of blue-green algae (cyanobacteria) in water bodies. Such toxins can result in the poisonings and fatalities of wildlife, livestock and family pets. Microcystin has also been implicated in human fatalities and increased risk of cancer from both short-term and acute chronic exposure. A limited sampling program for microcystin has been on-going on Lake Winnipeg since 2003. The project will analyze the production of cyanobacterial toxin in Lake Winnipeg, including what species are producing the microcystin and what factors (nutrients, light, other) influence toxin production and the occurrence and biomass of toxin-producing cyanobacterial species in Lake Winnipeg. Whole water and plankton samples will be collected from a subset of the 65 water quality monitoring sites established on Lake Winnipeg during two cruises. The samples will be analyzed for microcystin as well as for phytoplankton species composition, abundance and biomass. A technical report will be produced and a multi-author manuscript will be submitted for publication in a peer-reviewed journal.

WASTEWATER TREATMENT PILOT PROJECT-PHASE 1 AND PHASE 2

Proponent: Village of Dunnottar
Date Approved: September 4, 2007
Total Amount Approved: $23,000.00
Total Amount Expended: $23,000.00

A grant of $23,000.00 was approved to initiate the examination of passive filtration technologies to improve the quality of wastewater lagoon effluent, as part of the community's existing wastewater lagoon treatment system. The project seeks to improve the effluent quality, improve human health, and reduce nutrient contributions to Lake Winnipeg. Phase one will review current practices in other jurisdictions, which will be examined for applicability to Manitoba and its climate. Phase Two will involve bench scale testing in order to establish practical options for future field scale testing. The scope of this phase will include evaluation of selected filter media that are locally available, controlled temperature conditions, filter flow rates, and filter effectiveness and efficiency. Water samples after filtration through each media will be compared to untreated samples and post filtration samples will be evaluated against each other. Media will be evaluated for, among other things, the best opportunity for final land application of sequestered or removed nutrients from the wastewater. Wetland construction and simulation will also be evaluated in a laboratory setting.

WATER STEWARDSHIP

RESTORATION OF RIVERBANK RESEARCH SITE

Proponent: University of Manitoba Department of Civil Engineering
Date Approved: February 21, 2008
Total Amount Approved: $23,950.00
Total Amount Expended: $23,950.00

A grant of $23,950.00 was approved to undertake a shoreline enhancement project at a major research project site along the Red River within the City of Winnipeg. The site has been the focus of a riverbank stabilization project utilizing shear keys or rock columns to prevent against deep seated rotational failures of the riverbank due to loading on the top of the bank. These types of bank failures have the potential to negatively impact fish and habitat in the Red River. As part of the stabilization project, the riverbank must be revegetated in order to prevent loss of materials into the river.

WETLAND/UPLAND CONSERVATION AGREEMENT PROGRAM

Proponent: Turtle Mountain Conservation District
Date Approved: February 21, 2008
Total Amount Approved: $15,000.00
Total Amount Expended: $15,000.00

A grant of $15,000.00 was approved for a wetland conservation agreement program, to protect remaining wetland habitat on private land in the Whitewater Lake Basin. Wetlands are known to be one of the most beneficial ecosystems, as well as one of the most threatened. To foster the preservation of wetlands, the Turtle Mountain Conservation District (TMCD) has formed a partnership with Ducks Unlimited Canada (DUC). This partnership will help to permanently secure wetland habitat in the Whitewater Lake Basin, which has been categorized by DUC as high waterfowl potential with sufficient wetland habitat. In addition, Whitewater Lake and portions of the surrounding uplands have been designated as a Provincial Wildlife Management Area and is included in Manitoba's Network of Protected Areas.

WATERSHED MANAGEMENT PLANNING AND IMPLEMENTATION

NATURAL RUN DRAINAGE FEASIBILITY STUDY

Proponent: Tiger Hills Conservation District
Date Approved: September 4, 2007
Total Amount Approved: $6,500.00
Total Amount Expended: $6,500.00

A grant of $6,500.00 was approved to examine the feasibility of using the natural run of water in the Tiger Hills area in order to manage spring rain runoff. Spring rrunoffs occur at a high rate across the Tiger Hills and water quality becomes a concern as soils erode and the silt and sediments scour creek beds and shorelines, degrading the riparian zone and increasing turbidity. Wetlands lost as a result of agricultural practices acted as retention areas for much of the runoff; however, without them the water moves across the land much faster over a shorter period of time. Runoff in this area flows through six main natural channels to the Oak Creek. The Oak Creek empties the Glenboro Marsh several miles upstream and carries the water to the Souris River and eventually to the Assiniboine River. The Glenboro Marsh often experiences problems with high water levels. The marsh is important as diverse habitat and as a retention area for water. The installation of larger culverts by municipalities to handle runoff faster also adds to the velocity increase. The cumulative effects produce increased soil erosion, habitat and land loss and reduced water quality. Slowing down the runoff in these natural drainage channels will indirectly help the flow of the Glenboro Marsh, allowing the marsh to flow earlier in the season, thereby decreasing the flow rate and reducing erosion.

STEPHENFIELD LAKE WATERSHED WETLAND INVENTORY

Proponent: La Salle Redboine Conservation District
Date Approved: September 4, 2007
Total Amount Approved: $8,315.00
Total Amount Expended: $8,315.00

A grant of $8,315.00 was approved to conduct an up to date inventory surveys of both wetlands and riparian areas throughout the watershed. Once these resources have been assessed, a prioritized list of wetland and riparian areas will be prepared for protection or enhancement. Once prioritized, a partnership approach to protection will be adopted involving participating landowners and agencies. Local communities and stakeholder groups will meet with technical experts over a period of three years to discuss the concerns and future of the watershed. Guidance and technical direction will be provided by Ducks Unlimited as well as access to detailed wetland inventories to complete a wetland change analysis for the 20 year period beginning in 1986.

WILSON RIVER WATERSHED MANAGEMENT PLAN

Proponent: Intermountain Conservation District
Date Approved: February 21, 2008
Total Amount Approved: $23,000.00
Total Amount Expended: $23,000.00

A grant of $23,000.00 was approved to support the initial phases of developing management plans for selected watersheds within the district, with the objective to compile these into a larger scale Integrated Watershed Management Plan. The plan will identify and address concerns relating to the water and other natural systems, local economy and social structure within the watershed. This will include opportunities for reducing contaminants, nutrients, and sediment entering the water and opportunities for water retention and flood reduction. The identified concerns will form the basis for management strategies and actions that will be implemented in the watershed. To build community capacity, local individuals and groups will be supported and encouraged to get involved in the preparation, implementation, and review of the management plan.

STEPHENFIELD LAKE LIVESTOCK FENCING PROJECT

Proponent: La Salle Redboine Conservation District
Date Approved: February 21, 2008
Total Amount Approved: $10,650.00.
Total Amount Expended: $10,650.00

A grant of $10,650.00 was approved to support the construction of a two-strand, hi-tensile solar operated electric wire fencing and watering systems to keep cattle out of Stephenfield Lake. The lake is currently used for irrigation, livestock watering, recreation, and as a domestic water supply for 10,000 residents. The Stephenfield Lake Watershed Management Plan identified maintenance of a high quality water supply and source water protection as high priorities. The direct watering of livestock in the reservoir has been determined to be hazardous as there is the risk that harmful pathogens, particularly cryptosporidium, could be released into the water column posing a threat to both drinking water supplies and recreational users. The installation of water course fencing and offshore watering systems will maintain a buffer strip along the waters edge, preventing shoreline erosion and contamination of the lake by livestock.

ECONOMIC DEVELOPMENT

BRANDON LOW INCOME ENERGY AND WATER EFFICIENCY PROGRAM

Proponent: Brandon Neighbourhood Renewal Corporation
Date Approved: February 21, 2008
Total Amount Approved: $39,000.00
Total Amount Expended: $39,000.00

A grant of $39,000.00 was approved to initiate an energy and water efficiency retrofitting program for low income households, as well as an employment training program for local residents. The goal is to reduce the financial burden of utility bills on low income families by increasing the efficiencies of energy and water consumed in the household. On site training will focus on construction practices to reduce energy consumption and water consumption. Activities include demonstrating and supervising basement and attic insulation practices, removal of old toilets and installation of low flow toilets, and installation of low flow shower heads and faucet aerators. Low flow toilets will be purchased to retrofit households over three years and will provide the workforce with trained individuals.

Zebra Mussel Program

Zebra mussels are small clam-like organisms that are not native to North America. They were discovered in Lake St. Claire in 1988. It is generally believed that they were transported to North America in the ballast water of an ocean going vessel and that this ballast water was then discharged into the Great Lakes system in approximately 1986. Zebra mussels have spread quickly to all of the Great Lakes, the St. Lawrence and Ottawa rivers, Trent-Severn and Rideau Canal systems, Mississippi River from St. Paul Minnesota to the Gulf of Mexico delta including its major tributaries. More recently, zebra mussels have been found in the Missouri River at Sioux City, Iowa.

Manitoba remains vulnerable to invasion by zebra mussels and other aquatic invasive species (AIS). Although not presently found in Manitoba waters, this costly foreign species is close to Manitoba's watershed boundaries. Trailered watercraft is recognized as a key vector of zebra mussel dispersion by North American agencies responsible for AIS prevention and management. Movement of zebra mussels from infected bodies of water to other, isolated bodies of water is due to accidental transport on water-based equipment including boats, trailers, motors, as well as in live wells and bait buckets.

Water quality data indicate that numerous lakes and rivers in Manitoba would support populations of zebra mussels. Trailered watercraft with attached zebra mussels has resulted in dispersion to unconnected or isolated bodies of water throughout Michigan, Wisconsin, southern Ontario and, to Brainerd Lakes, Minnesota. The likely route of entry into Manitoba is by accidental introduction from trailered recreational watercraft originating from the Great Lakes area of Ontario and from northeast and central US. The Manitoba/US border offers a convenient inspection location of recreational watercraft trailered from US locations. The international border crossings also offer an opportunity for visiting fishers and recreational boaters to be informed and surveyed about zebra mussels and other AIS.

Goal and Objectives:

To prevent accidental introduction of zebra mussels and other aquatic invasive species (AIS) into Manitoba by visitors transporting water-based equipment across Manitoba's borders, and to heighten public awareness to the issues of zebra mussels and other AIS in Manitoba. The goal will be achieved by the following objectives:

1. To inspect and survey visitors transporting water-based equipment at various international border crossings in eastern Manitoba. Whiteshell Provincial Park is also a popular recreational destination for visitors. As such, inspections of boats and trailers will be conducted where practical (boat launches, Travel Manitoba Info Centre, etc.)
2. To provide literature (brochure and gift of appreciation) to boating visitors about how to prevent accidental introduction of zebra mussels into Manitoba.
3. To supply information to appropriate Manitoba Government regional offices (brochures, fact sheets, boat-ramp signage) for distribution and posting.
4. Target the boating audience with the clear message of preventing accidental zebra mussel introduction into Manitoba.
5. To employ students under the Student Temporary Employment Program (STEP).

Program Results 2007/2008:

All five Zebra Mussel Program objectives were met. During summer 2007, trailered watercraft crossing the international border into Manitoba for zebra mussels and other AIS were inspected by students and boater surveys were conducted. Inspections and surveys were conducted at the most eastern US/Manitoba border crossings and throughout Whiteshell Provincial Park.

Approximately 664 equipment inspections were completed from various locations in eastern Manitoba and 144 surveys of visiting boaters were completed. Brochures and promotional materials reminding boaters of AIS were handed out. Information about preventing zebra mussels was sent to registrants of Manitoba fishing derbies and provided at the Mid-Canada Boat Show, advertisements were placed in the Manitoba Angler's Guide and various articles were written.

Education and Promotion:
Brochures outlining the steps boaters can take to prevent accidental introductions and key chains with the message 'Stop Invasive Species!' were provided to each boater who was inspected and surveyed at international borders and other boat ramps in eastern Manitoba, including Whiteshell Provincial Park.

From May to August 2007, two STEP students were employed by Manitoba Water Stewardship to inspect trailered watercraft traveling into Manitoba. Inspections were made at the international border crossings at Emerson and Sprague. In addition, inspections of boat trailers were made at launch sites in the Whiteshell Provincial Park, and along the Red River corridor from Emerson to Selkirk Park. In addition to equipment inspections, boaters were surveyed (where possible) about their general knowledge of AIS. Results of inspections and surveys are summarized as follows:

Border Crossings:
Students inspected trailered watercraft entering Manitoba at Sprague and Emerson from early May to the end of August, 2007.

- 144 border inspections and interviews were conducted at two international border locations,
- 520 inspections of boat trailers were conducted in the Whiteshell Provincial Park and Red River Corridor,
- 122 of 144 boats (86%) originated from jurisdictions that have waters with zebra mussels,
- no evidence of zebra mussels or other AIS was found on any boat or trailer,
- 99% of visitors trailering a boat did not clean their boat before traveling,
- 3% of the boating visitors were unaware of issues concerning AIS,
- boats originated mostly from the following jurisdictions: Minnesota (45%), Iowa (13%), Nebraska (9%) and North Dakota (7%).

Public Boat Launch Inspections:

- 520 boat trailers were inspected at 18 launch sites,
- 80% originated within Manitoba,
- 4% originated from Alberta,
- 3% originated from Minnesota,
- No evidence of zebra mussels or other AIS were found on boat trailers.

BEAR SMART INITIATIVE

Managing Department: Manitoba Conservation, Wildlife and Ecosystem Protection Branch
Date Approved: 2007/2008 Estimates Review Process
Total Amount Approved: $125,000.00
Total Amount Expended: $30,586.56

Summary:

The *Bear Smart* Initiative continues to support activities and programming that shifts the focus away from reactive resolution of conflicts with bears to proactive prevention. By practicing *Bear Smart* principles, the key being eliminating and/or securing of all attractants, bears learn to not associate people and dwellings with food. These actions are expected to enhance public safety, reduce property damage, lessen the frequency of human-black bear encounters and maximize resource efficiency.

As cottage and acreage development expands into prime bear habitat and bears re-occupy abandoned farmland, the frequency and intensity of negative human-bear interactions is expected to increase. Black bears sometimes cause damage to property, apiaries, leafcutter bees, crops, livestock, and private property. On rare occasions, they may also be a threat to human safety in areas such as parks, campgrounds, cottage developments, in and around communities, rural sub-divisions and remote areas. Minimizing conflict between humans and bears will result in fewer bears needlessly being destroyed as problem bears.

An estimated 27,000 to 33,000 black bears live in Manitoba. The population continues to be stable in most non-agricultural areas. However, in some agro-fringe areas, the population is increasing. The variability in human-bear conflict is largely influenced by density and recruitment of bears in response to natural food availability, along with the level of bear presence and nuisance activity that the public is willing to tolerate. Based on complaints received since 2002, the frequency of human-black bear encounters is found to occur in recreational areas (42%), residential areas (33%), and in agricultural and undeveloped rural areas (25%).

Bear Smart Initiative priorities include:

- education and awareness through public outreach programming, including highway, traffic and pedestrian signs, posters, handout materials, newspaper ads, website and community workshops;
- identification of effective strategies to encourage *Bear Smart* behaviour over the long-term;
- showcasing positive outcomes to Manitoba communities, including the installation of necessary infrastructure for bear-proofing initiatives; and
- implementing bear-proofing initiatives in provincial parks.

Program Results 2007/2008:

- Advertisements and printing of promotional and educational materials: Two advertisements were published in newspapers throughout the Province to remind people on ways to reduce bear-human conflicts during the summer and the time of the year when bears were preparing for hibernation and an insert on "Deterrent Bear Pepper Spray" was developed.
- "Be Bear Smart" information was included in the 2008 Manitoba Parks Guide, Life's Great Outdoors in Manitoba Provincial Parks.
- "Bear Smart" workshops were provided to 64 Parks and Natural Areas Branch interpreters, 47 individual presentations were conducted and 1,373 contacts with park visitors were made in the following Provincial Parks: Birds Hill, Grand Beach, Grindstone-Hecla Island, Paint Lake, St. Malo, Whiteshell-Rennie and Whiteshell-Nutimik Lake.
- *Bear Smart* workshops were conducted with mining industry employees and Manitoba Hydro employees,
- *Bear Smart* display was exhibited during the six day Brandon Royal Winter Fair, with 250 contacts made.

- A student was employed to assist with data entry for each occurrence involving bears, as well as assisting with Bear Smart workshops and public education and outreach, which will assist in measuring outcomes of the various messages and initiatives undertaken.
- Options to conduct a pilot project in support of implementing bear smart waste management activities for Grand Beach Provincial Park were initiated.

MANITOBA FORESTRY ASSOCIATION WOODLOT PROGRAM

Managing Department: Manitoba Conservation, Forestry Branch
Date Approved: 2007/2008 Estimates Review
Total Amount Approved: $200,000.00
Total Amount Expended: $200,000.00

Summary:

The Woodlot Program continues to be delivered through the Manitoba Forestry Association (MFA) and has been effective in delivering services to private landowners in the Southeast, Interlake and Red River Valley regions of the province with an expanded presence in the Swan River Valley and surrounding area. Technical services and woodlot management plans continue to be provided to landowners through the assistance of a contract employee and speaking engagements are being provided to promote the Woodlot Program. Woodlot program staff work with representatives of Manitoba Agriculture, Food and Rural Initiatives, Manitoba Conservation, Town of Swan River, Rural Municipality of Swan River, surrounding municipalities and conservation districts, private landowners, and loggers in the area.

The objectives of the Woodlot Program are to promote land stewardship and to help landowners realize the potential of their wooded property in meeting their personal goals. The program continues to change to better serve the target audiences in the region and to better address issues landowners are facing.

Program Results 2007/2008

The MFA Woodlot Program continues to be popular and in high demand. Training seminars were held and staff continued to work with Conservation Districts and rural municipalities to deliver the message, showcase successful landowners who have conducted sustainable woodlot management activities and introduced field days and bus tours. At the end of FY 2007/2008, 16 landowners were on a waiting list for a management plan and a number of appointments were booked for walk 'n talks with interested landowners. Woodlot management objectives vary between landowners as they manage their woodlots for environmental benefits, timber and non-timber forest products. Small scale salvage harvesting of dead and dying larch is becoming more frequent as the eastern larch beetle continues to cause mortality in larch stands on private land.

Forty-five return visits indicate the continued interest of landowners involved in sustainable woodlot management. These return visits have become an integral part of the Manitoba Woodlot Program. The program continues to promote sustainable woodlot management opportunities available to landowners across Manitoba. Through newsletters, field days, bus tours, seminars and general word of mouth, the program continues to help rural Manitobans manage their woodlots for economic, environmental and social benefits.

Woodlot Program Components

Components of the Woodlot Program include management plans, return visits, public education/extension, and partnerships. Achievements for 2007/2008 include:

1. Management Plans

The first component of the Woodlot program is an initial "onsite" visit that is offered to the landowner. Following the visit, a detailed Woodlot Management Plan based on the specific topics or objectives discussed during a "walk and talk" is prepared. The plan, inclusive of recommendations to be carried out is presented to the landowner. During 2007/2008, 55 woodlot management plans were completed. Of these, 13 were conducted in the expanded area of the Swan River Valley. Since 1992, 1,144 management plans have been completed on 54,334.65 forested acres throughout 57 municipalities across Manitoba.

2. Return Visits

The second component of the Woodlot Program is the return visit. A return visit complements the written woodlot management plan provided to the landowner and provides assistance to the landowner who wishes to proceed with timber harvesting, which may also include marketing assistance (Operational Return Visit) or has completed initial recommendations contained in the management plan and may want to carry out additional work in the woodlot, including evaluation of ongoing silvicultural practices or advancing to the next level of woodlot management (Technical Return Visit). During 2007/2008, a total of 45 return visits were completed for landowners.

During 2007/2008, the demand for poplar and aspen has subsided and therefore, landowners in eastern Manitoba have not been as actively involved in small-scale timber harvests from their woodlots for economic benefits. Consequently, landowners involved in harvesting fuel wood for personal use and local sale have increased. In addition, the Eastern Larch Beetle has caused extensive mortality of large stands of larch; therefore, much of this larch is being salvaged for fuel wood purposes.

Many landowners involved in fuel wood harvesting activities received operational return visits. The estimated volume of saw logs/pulp/firewood from these activities is 7,145 m3 of hardwood and 2,770 m3 of softwood.

The percentage of landowner interest in management activities and production of specialty products from private land includes:

a) 20.0% - Traditional Tree Harvesting for Income, which includes harvesting for: the sale of saw logs and pulpwood; value-added products such as planning, kiln drying and grading lumber for market within the community; lumber for on site building materials, and firewood.
b) 14.0% - Non-Traditional Forest Products, which includes Manitoba maple syrup, mushroom production, jams and jellies; Christmas trees and hybrid poplars for pulpwood; saw logs and future carbon sequestering benefits.
c) 66.0% - Environmental Benefits, which includes recreation (e.g. trail construction for snowmobiling, bird watching, hiking and skiing); wildlife enhancement; eco-tourism; and tree planting (over 3.5 million seedlings planted by woodlot owners).

3. Public Education/Extension

The third component of the Woodlot Program includes Public Education/Extension activities, which includes a variety of other woodlot activities such as woodlot education seminars, evening seminars and special presentations, skills development seminars, bus tours, workshops and field days, as well as programming with groups and agencies supportive of woodlot management practices. During 2007/2008 the following were held:

- "Woodlot Series" included general woodlot management, Manitoba maple syrup, specialty mushrooms, and other non-timber forest products.
- Best Management Practices Tree Planting Training Seminar.
- Woodlot training seminar in Norway House Cree Nation.
- 'Woodlot Field Day'- Demonstrations included small scale logging equipment, portable sawmill operation, chainsaw care and maintenance and other woodlot related demonstrations.
- "Wisdom in the Woods" Field Day - Demonstrations included small low impact scale logging equipment, portable sawmills, and tree planting machine.
- Woodlot Field Day' at Duck Mountain Forest Centre. Demonstrations included small scale logging equipment with quads, portable sawmill operation using two micro sawmills, chainsaw care and maintenance, seedling distribution and other woodlot related demonstrations.
- In partnership with the Manitoba Model Forest, Woodlot Association of Manitoba and the South Interlake School Division held the "Mountains, Prairies & Trees" Bus Tour in June 2007and "Sawmills, Parks & Spirits" bus tour in August 2007.
- Assisted with organizing the Manitoba Christmas Tree Growers Association Annual Meeting at the Windrift Tree Farm in Tyndall in September 2007 and delivered a report of the 2007 Woodlot Program activities at the Woodlot Association of Manitoba Annual General Meeting at St. Malo on March 2007.
- Distributed over 130,000 seedling trees to approximately 180 landowners during the fifth annual "A Day in the Pines" and Sandilands Forest Centre tour in May 2007.

- Presentations were provided on proper tree planting for landowners, safe chainsaw use, insects and diseases of the woodlot, industrial tree planting, and basics of sawmilling and proper tree pruning.

4. Partnerships

- Manitoba Model Forest Woodlot Working Group to further promote education and awareness regarding sustainable woodlot stewardship.
- Manitoba Christmas Tree Growers Association Board of Directors to establish the annual Choose and Cut Directory and to continue advertising /marketing campaign.
- Manitoba Christmas Tree Growers Association and Woodlot Association of Manitoba to deliver various woodlot related initiatives on behalf of the Woodlot Program. The Woodlot Association of Manitoba produced six issues of "The Manitoba Woodlot" newsletter during 2007/2008 that included a variety of topics of interest to landowners

APPENDIX I -
Five Year Project Summary

Sustainable Development Innovations Fund
Five Year Expenditure Summary ($000)
For years ending March 31, 2003 - March 31, 2008

APPROPRIATION	Actual/Adjusted Expenditures				
	2003/04	2004/05	2005/06	2006/07	2007/08
Sustainable Development Innovations Fund	2,938.8	2,969.1	3,754.7	3,266.9	3,370.1
Total	2,938.8	2,969.1	3,754.7	3,266.9	3,370.1